



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/1/15 12:00 AM	228.00	7.20	9.10	11.30	2.20	11.30	8.10	9.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:15 AM	227.00	7.20	9.00	10.50	1.50	10.50	7.80	9.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:30 AM	229.00	7.80	9.10	0.00	0.00	0.00	7.90	9.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:45 AM	234.00	7.70	8.80	20.40	1.40	10.20	8.50	8.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:00 AM	231.00	7.50	9.20	10.40	1.20	10.40	8.50	9.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:15 AM	238.00	6.40	9.20	11.30	2.10	11.30	9.30	9.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:30 AM	232.00	5.80	9.30	9.90	0.60	9.90	9.60	9.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:45 AM	227.00	5.60	9.60	9.50	0.00	9.50	9.30	9.60	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:00 AM	234.00	6.20	10.00	9.70	0.00	9.70	9.20	10.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:15 AM	234.00	7.20	10.00	0.00	0.00	0.00	9.80	10.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:30 AM	228.00	6.20	10.10	9.00	0.00	9.00	9.80	10.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:45 AM	232.00	6.20	10.30	8.80	0.00	8.80	9.80	10.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:00 AM	237.00	6.50	10.40	8.90	0.00	8.90	10.00	10.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:15 AM	234.00	6.10	10.30	9.00	0.00	9.00	9.80	10.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:30 AM	235.00	6.70	10.30	9.00	0.00	9.00	10.20	10.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:45 AM	241.00	8.20	10.10	9.20	0.00	9.20	10.20	10.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:00 AM	240.00	6.80	10.00	9.70	0.00	9.70	10.10	10.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:15 AM	228.00	7.50	9.90	9.20	0.00	9.20	9.90	9.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:30 AM	241.00	7.30	9.90	9.40	0.00	9.40	10.20	9.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:45 AM	231.00	7.10	10.00	9.50	0.00	9.50	9.70	10.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:00 AM	255.00	7.50	10.00	9.60	0.00	9.60	10.10	10.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:15 AM	238.00	7.10	10.20	9.60	0.00	9.60	10.10	10.20	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:30 AM	235.00	7.60	10.20	9.70	0.00	9.70	10.00	10.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:45 AM	249.00	8.20	10.10	10.00	0.00	10.00	10.10	10.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 6:00 AM	226.00	5.00	10.20	10.20	0.00	10.20	9.80	10.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 6:15 AM	226.00	5.60	9.80	9.90	0.10	9.90	9.80	9.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 6:30 AM	227.00	7.60	10.00	9.80	0.00	9.80	10.00	10.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 6:45 AM	219.00	5.00	9.90	9.30	0.00	9.30	9.70	9.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 7:00 AM	227.00	6.40	10.30	9.20	0.00	9.20	11.00	10.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 7:15 AM	229.00	4.50	10.30	9.30	0.00	9.30	10.90	10.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 7:30 AM	223.00	6.00	10.90	9.00	0.00	9.00	11.10	10.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 7:45 AM	221.00	7.30	10.70	8.70	0.00	8.70	11.00	10.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 8:00 AM	218.00	5.90	10.60	9.50	0.00	9.50	10.60	10.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 8:15 AM	212.00	6.10	10.80	9.60	0.00	9.60	10.80	10.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 8:30 AM	222.00	6.90	10.90	9.90	0.00	9.90	10.70	10.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 8:45 AM	218.00	5.50	10.60	9.80	0.00	9.80	10.40	10.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 9:00 AM	221.00	6.80	10.50	10.10	0.00	10.10	10.50	10.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 9:15 AM	223.00	4.90	10.30	9.80	0.00	9.80	10.90	10.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 9:30 AM	236.00	7.30	9.50	9.20	0.00	9.20	10.40	9.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 9:45 AM	234.00	7.30	9.70	8.70	0.00	8.70	10.40	9.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 10:00 AM	231.00	7.20	9.80	9.40	0.00	9.40	10.20	9.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 10:15 AM	232.00	6.50	9.40	9.00	0.00	9.00	9.30	9.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 10:30 AM	227.00	8.20	9.60	9.00	0.00	9.00	9.30	9.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 10:45 AM	222.00	6.80	9.10	10.10	1.00	10.10	9.60	9.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 11:00 AM	234.00	6.60	8.90	10.50	1.60	10.50	9.20	8.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 11:15 AM	221.00	8.70	8.40	10.20	1.80	10.20	9.70	8.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 11:30 AM	217.00	9.20	8.40	10.20	1.80	10.20	9.70	8.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 11:45 AM	222.00	7.00	8.20	10.30	2.10	10.30	8.20	8.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:00 PM	228.00	7.30	8.00	10.50	2.50	10.50	8.10	8.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:15 PM	224.00	8.30	7.70	11.00	3.30	11.00	7.60	7.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:30 PM	236.00	7.20	7.80	0.00	0.00	0.00	7.50	7.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 12:45 PM	247.00	9.20	7.60	10.10	2.50	10.10	6.90	7.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:00 PM	221.00	7.70	7.60	9.60	2.00	9.60	7.10	7.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:15 PM	222.00	6.70	7.80	9.50	1.70	9.50	7.10	7.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:30 PM	228.00	8.40	8.10	9.40	1.30	9.40	6.80	8.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 1:45 PM	233.00	6.40	9.80	9.70	0.00	9.70	6.40	9.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:00 PM	216.00	8.90	9.30	10.50	1.20	10.50	6.90	9.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:15 PM	233.00	7.90	8.70	10.30	1.60	10.30	6.90	8.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:30 PM	234.00	5.90	8.40	11.20	2.80	11.20	6.90	8.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 2:45 PM	232.00	5.90	8.80	11.30	2.50	11.30	7.40	8.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:00 PM	221.00	6.60	8.40	11.70	3.30	11.70	7.30	8.40	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:15 PM	225.00	6.10	8.40	12.20	3.80	12.20	7.50	8.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:30 PM	214.00	8.10	9.50	12.30	2.80	12.30	7.60	9.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 3:45 PM	233.00	6.20	8.50	12.20	3.70	12.20	7.90	8.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:00 PM	234.00	7.10	8.60	12.50	3.90	12.50	8.10	8.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:15 PM	246.00	7.90	8.70	12.60	3.90	12.60	8.40	8.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:30 PM	222.00	5.70	8.80	12.50	3.70	12.50	8.60	8.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 4:45 PM	218.00	6.40	8.60	12.40	3.80	12.40	8.70	8.60	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:00 PM	222.00	5.60	9.40	12.20	2.80	12.20	9.60	9.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:15 PM	218.00	4.30	9.40	12.00	2.60	12.00	9.50	9.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/1/15 5:30 PM	220.00	5.70	9.40	11.40	2.00	11.4												



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/2/15 1:15 AM	272.00	4.00	10.90	11.50	0.60	12.20	11.50	10.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:30 AM	264.00	3.80	11.40	12.00	0.60	12.00	11.80	11.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:45 AM	263.00	3.30	11.30	12.20	0.90	12.20	12.10	11.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:00 AM	260.00	3.20	11.50	11.80	0.30	11.80	12.10	11.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:15 AM	248.00	2.50	11.80	11.40	0.00	11.40	12.40	11.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:30 AM	256.00	3.00	12.50	11.10	0.00	11.10	12.90	12.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:45 AM	262.00	2.70	12.50	11.00	0.00	11.00	13.00	12.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:00 AM	245.00	2.60	12.70	11.60	0.00	11.60	13.50	12.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:15 AM	236.00	1.80	12.40	11.40	0.00	11.40	12.70	12.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:30 AM	236.00	2.00	12.40	11.30	0.00	11.30	13.30	12.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:45 AM	243.00	2.30	13.10	0.00	0.00	0.00	13.70	13.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:00 AM	254.00	2.10	12.70	11.50	0.00	11.50	13.50	12.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:15 AM	266.00	2.20	12.80	12.70	0.00	12.70	13.40	12.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:30 AM	245.00	2.20	12.50	11.80	0.00	11.80	12.80	12.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:45 AM	239.00	2.10	12.80	13.90	1.10	13.90	13.10	12.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:00 AM	249.00	2.50	13.00	12.00	0.00	12.00	13.20	13.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:15 AM	251.00	2.50	13.50	12.60	0.00	12.60	14.00	13.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:30 AM	245.00	2.20	14.70	11.40	0.00	11.40	13.40	14.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:45 AM	248.00	2.60	14.80	11.80	0.00	11.80	14.60	14.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:00 AM	264.00	2.50	14.20	12.70	0.00	12.70	14.90	14.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:15 AM	242.00	2.00	14.10	12.30	0.00	12.30	14.80	14.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:30 AM	256.00	2.50	14.60	11.80	0.00	11.80	16.10	14.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:45 AM	262.00	2.30	14.50	11.70	0.00	11.70	16.90	14.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 7:00 AM	264.00	2.30	14.40	12.00	0.00	12.00	15.40	14.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 7:15 AM	273.00	2.50	16.90	16.30	0.00	0.00	16.30	14.90	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 7:30 AM	259.00	2.70	16.90	17.80	0.90	17.80	20.90	16.90	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 7:45 AM	251.00	2.20	18.90	17.20	0.00	17.20	19.60	18.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 8:00 AM	267.00	2.00	18.60	0.00	0.00	0.00	21.10	18.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 8:15 AM	224.00	1.50	19.30	15.70	0.00	15.70	20.20	19.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 8:30 AM	220.00	1.80	21.10	15.00	0.00	15.00	24.30	21.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 8:45 AM	209.00	1.40	20.20	15.50	0.00	15.50	20.60	20.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 9:00 AM	215.00	1.40	19.80	15.30	0.00	15.30	20.70	19.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 9:15 AM	243.00	2.10	18.50	14.30	0.00	14.30	19.50	18.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 9:30 AM	233.00	2.30	19.30	20.20	0.90	20.20	21.00	19.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 9:45 AM	219.00	2.30	24.50	21.80	0.00	21.80	21.80	24.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 10:00 AM	232.00	2.10	21.00	23.50	2.50	23.50	39.20	21.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 10:15 AM	245.00	1.80	21.80	23.50	1.70	23.50	21.70	21.80	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 10:30 AM	229.00	1.90	22.70	24.70	2.00	24.70	21.80	22.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 10:45 AM	235.00	2.20	22.20	26.50	4.30	26.50	22.50	22.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 11:00 AM	237.00	1.80	22.30	25.70	3.40	25.70	21.00	22.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 11:15 AM	229.00	2.40	22.00	24.30	2.30	24.30	21.00	22.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 11:30 AM	181.00	2.70	21.70	21.80	0.10	21.80	19.90	21.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 11:45 AM	185.00	2.60	17.70	19.20	1.50	19.20	17.60	17.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 12:00 PM	176.00	2.30	14.60	13.50	0.00	14.60	14.60	16.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 12:15 PM	170.00	3.50	16.00	13.30	0.00	16.70	16.00	16.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 12:30 PM	202.00	2.80	14.70	14.60	0.00	14.60	12.90	14.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 12:45 PM	182.00	2.20	13.30	14.60	1.30	14.60	11.50	13.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:00 PM	223.00	1.70	13.20	14.00	0.80	14.00	11.20	13.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:15 PM	255.00	1.10	13.70	15.10	1.40	15.10	11.60	13.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:30 PM	121.00	0.80	12.50	12.50	0.00	15.90	12.50	14.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 1:45 PM	215.00	2.70	13.50	16.00	2.50	16.00	15.30	13.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:00 PM	175.00	3.70	12.40	12.00	0.00	15.10	12.40	13.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:15 PM	182.00	3.20	14.10	16.20	2.10	16.20	12.90	14.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:30 PM	143.00	1.20	15.00	15.10	0.10	17.80	15.00	15.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 2:45 PM	171.00	1.60	17.30	15.00	0.00	17.70	17.30	15.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:00 PM	147.00	1.40	16.50	15.20	0.00	17.30	16.50	16.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:15 PM	179.00	2.10	18.70	15.30	0.00	16.50	18.70	15.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:30 PM	163.00	3.10	20.00	15.30	0.00	14.70	20.00	16.20	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 3:45 PM	153.00	2.70	17.70	15.50	0.00	14.20	17.70	16.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:00 PM	193.00	1.90	15.90	14.60	0.00	14.60	27.00	15.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:15 PM	179.00	1.50	18.10	16.10	0.00	14.20	18.10	16.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:30 PM	143.00	2.10	18.60	15.80	0.00	17.50	18.60	16.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 4:45 PM	121.00	1.70	28.70	20.80	0.00	19.90	28.70	23.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:00 PM	109.00	2.30	29.20	21.60	0.00	21.00	29.20	24.50	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:15 PM	119.00	2.00	32.30	25.50	0.00	23.60	32.30	26.20	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:30 PM	159.00	1.50	32.10	22.50	0.00	18.30	32.10	27.50	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 5:45 PM	173.00	2.30	26.40	22.60	0.00	15.80	26.40	22.50	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:00 PM	140.00	1.70	24.30	19.10	0.00	15.70	24.30	21.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/2/15 6:15 PM	180.00	1.40	22.50	16.30	0.00	16.30	25.50	22.50	19.00	0.00	0.00	0.00	0.00					



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/7/15 8:30 AM	327.00	7.90	9.60	32.30	22.70	15.60	32.30	11.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 8:45 AM	330.00	7.30	8.50	32.30	23.80	15.60	32.30	12.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:00 AM	333.00	7.00	8.20	30.40	22.20	15.60	30.40	11.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:15 AM	332.00	8.30	7.30	30.10	22.80	13.00	30.10	10.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:30 AM	328.00	5.40	7.30	30.00	22.70	12.70	30.00	10.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:45 AM	327.00	7.30	6.90	29.70	22.80	12.10	29.70	11.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:00 AM	327.00	7.60	6.50	29.80	23.30	12.00	29.80	10.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:15 AM	323.00	7.60	6.20	34.70	28.50	11.60	34.70	10.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:30 AM	337.00	8.50	6.00	32.30	26.30	11.40	32.30	10.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:45 AM	323.00	7.60	5.50	28.70	23.20	11.90	28.70	9.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:00 AM	323.00	7.30	5.80	31.40	25.60	12.50	31.40	9.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:15 AM	335.00	8.10	5.90	30.50	24.60	12.00	30.50	9.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:30 AM	328.00	6.90	5.80	30.10	24.30	11.90	30.10	9.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:45 AM	323.00	7.90	5.90	31.80	25.90	12.70	31.80	8.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 12:00 PM	327.00	5.90	6.20	33.00	26.80	13.40	33.00	9.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 12:15 PM	321.00	7.10	6.20	29.90	23.70	12.30	29.90	9.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 12:30 PM	311.00	8.60	6.10	28.70	22.60	12.90	28.70	9.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 12:45 PM	319.00	7.80	6.30	28.10	21.80	13.00	28.10	9.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 1:00 PM	332.00	6.80	5.80	26.70	20.90	12.60	26.70	9.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 1:15 PM	326.00	6.60	6.30	26.60	20.30	12.40	26.60	8.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 1:30 PM	336.00	5.70	6.30	29.10	22.80	13.30	29.10	9.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 1:45 PM	317.00	7.30	6.80	30.00	23.20	14.50	30.00	10.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 2:00 PM	310.00	7.80	7.30	29.90	22.60	13.60	29.90	10.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 2:15 PM	300.00	6.80	7.70	30.10	22.40	13.10	30.10	10.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 2:30 PM	320.00	7.50	7.90	29.50	21.60	13.70	29.50	11.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 2:45 PM	329.00	6.60	7.10	25.70	18.60	13.20	25.70	10.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 3:00 PM	315.00	7.90	7.20	27.20	20.00	13.20	27.20	11.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 3:15 PM	319.00	7.50	7.40	24.70	17.30	12.70	24.70	10.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 3:30 PM	319.00	5.40	8.30	26.90	18.60	13.50	26.90	11.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 3:45 PM	320.00	5.80	7.90	26.40	18.50	13.40	26.40	11.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 4:00 PM	283.00	6.00	8.10	23.50	15.40	13.40	23.50	11.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 4:15 PM	292.00	7.20	8.40	25.70	17.30	13.90	25.70	11.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 4:30 PM	282.00	5.00	9.00	24.20	15.20	13.80	24.20	11.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 4:45 PM	299.00	5.50	9.80	26.90	17.10	14.90	26.90	12.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 5:00 PM	302.00	7.70	10.40	26.60	16.20	15.70	26.60	12.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 5:15 PM	298.00	6.10	9.70	25.00	15.30	14.10	25.00	12.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 5:30 PM	280.00	5.30	12.40	26.30	13.90	17.60	26.30	12.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 5:45 PM	303.00	5.50	10.20	25.80	15.60	14.20	25.80	16.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 6:00 PM	295.00	6.30	11.10	39.00	27.90	14.60	39.00	14.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 6:15 PM	280.00	5.70	12.70	26.10	13.40	14.30	26.10	13.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 7:30 PM	272.00	4.80	15.70	24.20	8.50	12.20	24.20	13.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 7:45 PM	267.00	4.80	13.00	14.00	1.00	14.00	23.00	13.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 8:00 PM	270.00	5.80	12.00	24.50	12.50	10.90	24.50	12.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 8:15 PM	269.00	4.90	12.60	10.60	0.00	10.60	22.20	12.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 8:30 PM	260.00	5.10	12.70	10.30	0.00	10.30	23.20	12.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 8:45 PM	268.00	5.20	12.70	10.80	0.00	10.80	23.70	12.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:00 PM	265.00	3.70	12.70	10.70	0.00	10.70	23.50	12.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:15 PM	267.00	4.10	13.10	11.50	0.00	11.50	23.30	13.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:30 PM	266.00	4.50	13.30	11.50	0.00	11.50	23.50	13.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 9:45 PM	282.00	5.00	11.40	23.00	11.60	11.30	23.00	13.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:00 PM	266.00	5.50	14.60	12.90	0.00	12.90	25.20	14.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:15 PM	265.00	5.20	12.50	11.20	0.00	11.20	21.30	12.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:30 PM	269.00	4.60	12.20	11.30	0.00	11.30	21.00	12.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 10:45 PM	244.00	5.60	13.00	11.70	0.00	11.70	20.70	13.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:00 PM	247.00	6.00	12.70	11.70	0.00	11.70	20.90	12.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:15 PM	247.00	4.10	12.90	11.50	0.00	11.50	20.80	12.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:30 PM	260.00	5.20	13.00	11.30	0.00	11.30	21.10	13.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/7/15 11:45 PM	237.00	2.90	13.70	11.40	0.00	11.40	21.70	13.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:00 AM	252.00	3.60	13.40	11.30	0.00	11.30	21.00	13.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:15 AM	249.00	5.10	13.20	0.00	0.00	0.00	20.90	13.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:30 AM	249.00	5.00	13.00	11.70	0.00	11.70	20.00	13.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:45 AM	245.00	5.50	12.80	11.60	0.00	11.60	19.10	12.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:00 AM	244.00	6.10	12.30	11.30	0.00	11.30	18.60	12.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:15 AM	251.00	6.90	12.30	11.20	0.00	11.20	18.30	12.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:30 AM	245.00	6.10	12.80	10.90	0.00	10.90	18.10	12.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:45 AM	244.00	4.80	12.90	11.20	0.00	11.20	17.80	12.90	9.00	0.00	0.00							



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/8/15 10:45 AM	212.00	9.40	10.10	9.70	0.00	9.70	10.50	10.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:00 AM	193.00	6.60	9.80	9.20	0.00	9.20	10.30	9.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:15 AM	192.00	9.20	10.20	9.40	0.00	9.40	10.60	10.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:30 AM	202.00	8.90	10.90	9.80	0.00	9.80	10.60	10.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:45 AM	203.00	7.50	13.40	9.60	0.00	9.60	10.40	13.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:00 PM	202.00	8.80	10.40	9.70	0.00	9.70	10.70	10.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:15 PM	191.00	7.90	11.00	9.60	0.00	9.60	10.30	11.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:30 PM	196.00	9.70	11.10	9.20	0.00	9.20	10.10	11.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 12:45 PM	200.00	9.40	11.20	9.10	0.00	9.10	10.10	11.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:00 PM	193.00	7.40	11.30	9.20	0.00	9.20	10.60	11.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:15 PM	185.00	9.70	11.40	9.00	0.00	9.00	9.90	11.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:30 PM	197.00	7.80	12.10	9.60	0.00	9.60	9.90	12.10	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 1:45 PM	193.00	10.20	11.90	10.40	0.00	10.40	9.80	11.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 2:00 PM	192.00	10.60	12.50	10.00	0.00	10.00	10.00	12.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 2:15 PM	197.00	7.10	12.90	11.50	0.00	11.50	10.30	12.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 2:30 PM	191.00	9.60	28.00	43.50	15.50	43.50	30.40	28.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 2:45 PM	195.00	10.30	61.00	87.60	26.60	87.60	75.30	61.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 3:00 PM	195.00	12.80	46.80	45.60	0.00	45.60	75.30	46.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 3:15 PM	186.00	9.70	63.90	67.90	4.00	67.90	83.90	63.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 3:30 PM	184.00	9.60	42.10	42.20	0.10	42.20	63.10	42.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 3:45 PM	188.00	11.40	145.40	155.00	9.60	155.00	76.80	145.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 4:00 PM	196.00	10.20	169.40	278.30	108.90	278.30	432.90	169.40	31.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 4:15 PM	189.00	8.70	281.40	222.50	0.00	222.50	268.20	281.40	86.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 4:30 PM	190.00	12.00	207.20	274.30	67.10	274.30	408.90	207.20	61.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 4:45 PM	199.00	8.80	239.50	275.90	36.40	275.90	418.10	239.50	46.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 5:00 PM	205.00	11.30	95.70	160.30	64.60	160.30	177.00	95.70	31.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 5:15 PM	194.00	11.00	86.30	118.80	32.50	118.80	150.40	86.30	31.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 5:30 PM	206.00	8.90	83.20	103.00	19.80	103.00	141.00	83.20	32.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 5:45 PM	198.00	10.30	84.60	81.90	0.00	81.90	142.60	84.60	30.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 6:00 PM	215.00	8.90	108.90	140.30	31.40	140.30	143.50	108.90	30.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 6:15 PM	201.00	8.80	91.40	89.80	0.00	89.80	140.00	91.40	31.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 6:30 PM	207.00	7.30	85.20	89.50	4.30	89.50	134.20	85.20	33.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 6:45 PM	217.00	10.80	91.10	171.40	80.30	171.40	202.50	91.10	36.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 7:00 PM	201.00	8.30	128.10	234.60	106.50	234.60	186.30	128.10	36.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 7:15 PM	205.00	7.60	132.00	162.60	30.60	162.60	162.70	132.00	39.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 7:30 PM	214.00	9.00	90.40	103.40	13.00	103.40	135.10	90.40	34.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 7:45 PM	213.00	7.20	79.80	109.70	29.90	109.70	254.50	79.80	27.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 8:00 PM	224.00	8.60	79.80	89.40	9.60	89.40	254.50	79.80	29.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 8:15 PM	215.00	10.20	71.10	86.10	15.00	86.10	117.50	71.10	29.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 8:30 PM	224.00	8.00	72.30	89.60	17.30	89.60	110.50	72.30	25.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 8:45 PM	225.00	9.70	79.90	82.00	2.10	82.00	114.40	79.90	28.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 9:00 PM	206.00	8.60	63.80	69.70	5.90	69.70	119.50	63.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 9:15 PM	224.00	6.00	61.90	67.00	5.10	67.00	96.00	61.90	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 9:30 PM	223.00	7.80	62.00	78.50	16.50	78.50	96.20	62.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 9:45 PM	225.00	7.50	74.00	68.20	0.00	68.20	105.00	74.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 10:00 PM	228.00	8.60	60.60	69.40	8.80	69.40	105.00	60.60	21.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 10:15 PM	232.00	8.30	62.90	66.20	3.30	66.20	109.40	62.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 10:30 PM	239.00	7.20	69.30	66.10	0.00	66.10	111.50	69.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 10:45 PM	252.00	8.50	61.60	66.90	5.30	66.90	115.30	61.60	22.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:00 PM	268.00	9.10	58.00	69.50	11.50	69.50	105.30	58.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:15 PM	263.00	8.60	55.60	67.90	12.30	67.90	97.60	55.60	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:30 PM	275.00	7.80	22.80	97.60	74.80	71.10	97.60	67.50	22.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/8/15 11:45 PM	281.00	5.40	23.20	97.60	74.40	69.90	97.60	67.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 12:00 AM	278.00	7.50	23.00	98.60	75.60	77.60	98.60	68.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 12:15 AM	288.00	6.80	21.50	79.00	57.50	64.80	79.00	52.40	21.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 12:30 AM	276.00	7.40	21.40	87.60	66.20	65.60	87.60	47.00	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 12:45 AM	278.00	7.20	22.10	73.70	51.60	60.10	73.70	45.70	22.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 1:00 AM	273.00	9.10	24.00	76.60	52.60	60.10	76.60	46.70	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 1:15 AM	273.00	6.50	23.70	105.00	81.30	60.40	105.00	65.10	23.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 1:30 AM	300.00	9.20	23.00	82.00	59.00	64.80	82.00	53.30	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 1:45 AM	298.00	10.70	20.50	92.30	71.80	58.90	92.30	42.70	20.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 2:00 AM	308.00	9.00	20.20	62.80	42.60	61.00	62.80	40.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 2:15 AM	308.00	8.40	19.50	78.70	59.20	57.60	78.70	40.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 2:30 AM	311.00	7.50	16.40	54.40	38.00	48.40	54.40	36.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 2:45 AM	299.00	5.60	17.40	54.30	36.90	47.10	54.30	34.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 3:00 AM	305.00	7.70	16.80	64.50	47.70	44.40	64.50	49.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 3:15 AM	294.00	7.20	19.90	68.50	48.60	41.70	68.50	47.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 3:30 AM	296.00	7.70	17.90	57.30	39.40	41.80	57.30	31.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 3:45 AM	285.00	6.30	15.00	57.30	42.30	37.50	57.30	60.70	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 4:00 AM	265.00	4.50	30.20	59.70	29.50	59.70	45.50	30.20	32.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 4:15 AM	274.00	4.10	20.50	44.20	23.70	36.60	44.20	28.80	20.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/15 4:30 AM	275.00	5.80	24.60	47.70	23.10	35.60	47.70	30.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/9/1																



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/9/15 12:00 PM	274.00	8.90	10.50	45.40	34.90	27.80	45.40	21.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 12:15 PM	285.00	7.50	10.90	47.90	37.00	0.00	47.90	21.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 12:30 PM	271.00	8.60	11.50	43.50	32.00	29.30	43.50	21.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 12:45 PM	287.00	5.40	10.70	42.10	31.40	27.50	42.10	21.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 1:00 PM	270.00	6.90	10.80	40.70	29.90	27.70	40.70	21.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 1:15 PM	272.00	6.30	11.60	41.40	29.80	27.30	41.40	20.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 1:30 PM	287.00	5.80	12.00	43.00	31.00	28.20	43.00	26.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 1:45 PM	270.00	7.60	12.00	45.10	33.10	29.40	45.10	22.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 2:00 PM	284.00	6.80	11.50	42.50	31.00	30.20	42.50	21.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 2:15 PM	269.00	9.10	26.20	29.10	2.90	29.10	53.20	26.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 2:30 PM	294.00	5.80	12.70	42.90	30.20	30.00	42.90	24.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 2:45 PM	273.00	7.10	13.30	48.50	35.20	31.70	48.50	23.80	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 3:00 PM	261.00	7.40	22.00	30.80	8.80	30.80	46.60	22.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 3:15 PM	276.00	6.70	12.80	43.70	30.90	0.00	43.70	22.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 3:30 PM	281.00	7.60	12.40	50.80	38.40	27.20	50.80	35.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 3:45 PM	277.00	7.90	12.90	51.80	38.90	29.20	51.80	25.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 4:00 PM	270.00	6.60	12.80	46.50	33.70	32.50	46.50	25.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 4:15 PM	277.00	5.60	12.40	51.00	38.60	0.00	51.00	25.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 4:30 PM	277.00	7.80	12.30	44.30	32.00	26.60	44.30	21.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 4:45 PM	262.00	6.30	24.10	27.10	3.00	27.10	46.00	24.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 5:00 PM	278.00	7.20	11.90	49.80	37.90	27.50	49.80	24.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 5:15 PM	280.00	7.20	12.60	61.10	48.50	28.20	61.10	26.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 5:30 PM	273.00	4.90	12.30	44.10	31.80	27.50	44.10	23.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 5:45 PM	276.00	8.20	13.40	50.30	36.90	28.20	50.30	28.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 6:00 PM	268.00	7.00	23.20	0.00	0.00	0.00	44.40	23.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 6:15 PM	273.00	4.20	13.00	46.40	33.40	26.70	46.40	23.50	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 6:30 PM	273.00	6.40	12.80	42.50	29.70	27.00	42.50	24.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 6:45 PM	261.00	5.40	23.60	27.40	3.80	27.40	41.70	23.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 7:00 PM	254.00	6.80	24.00	27.50	3.50	27.50	41.40	24.00	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 7:15 PM	261.00	7.90	22.20	26.50	4.30	26.50	38.60	22.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 7:30 PM	260.00	7.00	22.20	26.10	3.90	26.10	37.90	22.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 7:45 PM	261.00	6.40	21.50	25.30	3.80	25.30	37.10	21.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 8:00 PM	266.00	8.00	21.50	24.20	2.70	24.20	37.50	21.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 8:15 PM	256.00	6.00	21.60	32.00	10.40	32.00	37.90	21.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 8:30 PM	259.00	7.10	21.10	24.20	3.10	24.20	35.70	21.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 8:45 PM	264.00	5.60	20.70	23.00	2.30	23.00	36.90	20.70	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 9:00 PM	268.00	5.90	20.10	21.60	1.50	21.60	35.80	20.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 9:15 PM	264.00	4.00	19.70	21.50	1.80	21.50	34.00	19.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 9:30 PM	263.00	6.70	19.80	21.50	1.70	21.50	33.60	19.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 9:45 PM	261.00	5.70	19.90	20.70	0.80	20.70	33.90	19.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 10:00 PM	267.00	5.90	19.50	20.90	1.40	20.90	32.40	19.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 10:15 PM	269.00	5.70	19.30	20.20	0.90	20.20	32.80	19.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 10:30 PM	260.00	6.10	19.10	21.50	2.40	21.50	31.70	19.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 10:45 PM	259.00	6.80	19.00	20.90	1.90	20.90	31.50	19.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 11:00 PM	266.00	5.80	19.10	21.30	2.20	21.30	31.50	19.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 11:15 PM	253.00	4.80	19.40	21.10	1.70	21.10	31.00	19.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 11:30 PM	259.00	5.60	18.80	21.00	2.20	21.00	30.00	18.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/9/15 11:45 PM	262.00	3.70	19.00	20.80	1.80	20.80	30.50	19.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 12:00 AM	250.00	3.70	18.80	20.90	2.10	20.90	29.10	18.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 12:15 AM	249.00	5.00	18.80	21.80	3.00	21.80	29.70	18.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 12:30 AM	251.00	4.30	19.50	22.50	3.00	22.50	30.30	19.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 12:45 AM	260.00	2.90	20.00	23.20	3.20	23.20	30.50	20.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 1:00 AM	256.00	2.80	19.60	23.50	3.90	23.50	30.30	19.60	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 1:15 AM	258.00	3.50	19.60	22.80	3.20	22.80	30.10	19.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 2:30 AM	249.00	3.30	18.50	21.50	3.00	21.50	26.60	18.50	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 2:45 AM	241.00	4.00	18.80	20.70	1.90	20.70	26.50	18.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:00 AM	243.00	3.30	19.20	20.50	1.30	20.50	26.90	19.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:15 AM	252.00	3.40	19.40	21.10	1.70	21.10	26.70	19.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:30 AM	247.00	3.30	19.20	20.00	0.80	20.00	26.90	19.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:45 AM	244.00	4.40	19.70	20.00	0.30	20.00	27.20	19.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:00 AM	249.00	5.00	20.20	20.00	0.00	20.00	26.90	20.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:15 AM	239.00	4.20	20.30	20.20	0.00	20.20	27.10	20.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:30 AM	211.00	3.40	20.70	21.10	0.40	21.10	25.80	20.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:45 AM	224.00	4.00	20.40	20.80	0.40	20.80	26.20	20.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:00 AM	235.00	3.40	20.50	20.50	0.00	20.50	26.20	20.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:15 AM	218.00	3.20	20.10	20.20	0.10	20.20	25.40	20.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:30 AM	218.00	2.50	19.30	19.30	0.00	19.30	25.60	19.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:45 AM	212.00	2.00	20.30	18.50	0.00	18.50	23.80	20.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 7:00 AM	226.00	3.90	20.00	18.30	0.00	18.30	24.70	20.00										



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/10/15 3:15 PM	197.00	6.60	14.40	21.30	6.90	21.30	20.80	14.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:30 PM	198.00	5.10	14.90	21.30	6.40	21.30	21.80	14.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 3:45 PM	197.00	6.50	15.50	25.90	10.40	25.90	24.10	15.50	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:00 PM	189.00	6.90	17.20	26.80	9.60	26.80	25.80	17.20	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:15 PM	208.00	5.20	16.50	25.50	9.00	25.50	24.90	16.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:30 PM	205.00	6.30	15.90	0.00	0.00	0.00	24.50	15.90	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 4:45 PM	208.00	5.50	16.10	22.90	6.80	22.90	24.10	16.10	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:00 PM	211.00	5.00	16.20	21.70	5.50	21.70	24.80	16.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:15 PM	191.00	6.10	16.30	21.20	4.90	21.20	25.10	16.30	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:30 PM	189.00	5.60	16.40	20.60	4.20	20.60	25.40	16.40	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 5:45 PM	193.00	5.90	16.60	20.90	4.30	20.90	24.90	16.60	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:00 PM	184.00	6.70	16.20	21.60	5.40	21.60	24.90	16.20	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:15 PM	177.00	5.70	24.70	21.80	0.00	20.80	24.70	17.20	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:30 PM	179.00	7.60	24.20	21.50	0.00	21.00	24.20	17.80	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 6:45 PM	179.00	6.90	24.30	21.10	0.00	21.30	24.30	17.30	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 7:00 PM	171.00	8.80	24.00	20.60	0.00	20.10	24.00	16.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 7:15 PM	177.00	6.40	21.90	19.90	0.00	18.40	21.90	16.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 7:30 PM	185.00	8.30	16.40	19.10	2.70	19.10	21.20	16.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 7:45 PM	182.00	7.60	16.00	19.10	3.10	19.10	20.70	16.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 8:00 PM	174.00	9.50	20.90	17.70	0.00	19.90	20.90	15.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 8:15 PM	185.00	7.00	15.70	0.00	0.00	0.00	20.10	15.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 8:30 PM	197.00	5.80	15.00	18.50	3.50	18.50	19.60	15.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 8:45 PM	191.00	6.70	14.60	19.20	4.60	19.20	18.60	14.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 9:00 PM	196.00	5.70	14.80	0.00	0.00	0.00	19.10	14.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 9:15 PM	187.00	4.40	14.10	19.00	4.90	19.00	18.80	14.10	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 9:30 PM	192.00	5.00	14.10	18.00	3.90	18.00	18.60	14.10	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 9:45 PM	194.00	4.90	14.20	17.20	3.00	17.20	18.30	14.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 10:00 PM	198.00	5.60	14.50	16.60	2.10	16.60	18.50	14.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 10:15 PM	204.00	5.60	14.40	16.90	2.50	16.90	19.30	14.40	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 10:30 PM	204.00	6.30	14.30	16.80	2.50	16.80	18.80	14.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 10:45 PM	207.00	5.20	13.80	17.40	3.60	17.40	18.40	13.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 11:00 PM	205.00	5.40	14.10	18.00	3.90	18.00	19.60	14.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 11:15 PM	188.00	6.80	14.30	18.30	4.00	18.30	18.40	14.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 11:30 PM	197.00	5.30	14.30	0.00	0.00	0.00	18.20	14.30	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/10/15 11:45 PM	196.00	6.50	14.40	19.50	5.10	19.50	18.70	14.40	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 12:00 AM	209.00	5.50	14.30	19.80	5.50	19.80	18.50	14.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 12:15 AM	195.00	5.90	14.60	19.50	4.90	19.50	18.70	14.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 12:30 AM	193.00	5.60	14.60	19.20	4.60	19.20	18.30	14.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 12:45 AM	185.00	6.80	14.30	19.20	4.90	19.20	18.30	14.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 1:15 AM	193.00	6.10	14.30	18.10	3.80	18.10	18.10	14.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 1:30 AM	184.00	5.20	14.40	18.10	3.70	18.10	17.20	14.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 1:45 AM	200.00	5.70	14.40	18.30	3.90	18.30	17.60	14.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 2:00 AM	195.00	6.80	14.70	0.00	0.00	0.00	17.20	14.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 2:15 AM	197.00	5.70	14.70	18.40	3.70	18.40	17.10	14.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 2:30 AM	198.00	4.80	14.30	18.30	4.00	18.30	17.00	14.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 2:45 AM	198.00	6.80	14.20	18.00	3.80	18.00	16.80	14.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 3:00 AM	201.00	4.40	14.10	0.00	0.00	0.00	16.70	14.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 3:15 AM	203.00	5.50	14.00	17.50	3.50	17.50	16.60	14.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 3:30 AM	193.00	5.80	13.90	17.40	3.50	17.40	17.10	13.90	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 3:45 AM	202.00	5.90	14.20	17.10	2.90	17.10	17.10	14.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 4:00 AM	206.00	6.00	13.90	16.90	3.00	16.90	16.60	13.90	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 4:15 AM	195.00	5.30	14.40	18.00	3.60	18.00	16.70	14.40	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 4:30 AM	195.00	5.20	14.40	17.20	2.80	17.20	16.70	14.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 4:45 AM	197.00	4.00	14.50	16.90	2.40	16.90	16.90	14.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:00 AM	191.00	5.70	14.50	15.80	1.30	15.80	17.10	14.50	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:15 AM	204.00	5.10	14.50	15.50	1.00	15.50	17.10	14.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:30 AM	189.00	4.90	14.10	14.70	0.60	14.70	16.70	14.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:45 AM	202.00	3.90	14.40	15.10	0.70	15.10	16.80	14.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:00 AM	198.00	5.50	13.90	14.90	1.00	14.90	16.80	13.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:15 AM	200.00	3.80	14.10	15.40	1.30	15.40	16.90	14.10	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:30 AM	204.00	3.90	14.00	16.00	2.00	16.00	16.50	14.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:45 AM	194.00	4.70	14.00	16.40	2.40	16.40	16.70	14.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:00 AM	202.00	4.60	14.70	17.20	2.50	17.20	17.00	14.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:15 AM	199.00	4.40	14.50	16.80	2.30	16.80	16.70	14.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:30 AM	202.00	4.20	14.20	15.90	1.70	15.90	16.90	14.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:45 AM	199.00	4.20	14.10	14.10	0.00	14.10	16.80	14.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:00 AM	207.00	5.20	14.00	13.30	0.00	13.30	16.40	14.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:15 AM	200.00	3.30	13.60	13.20	0.00	13.20	16.20	13.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:30 AM	199.00	4.90	13.80	12.80	0.00	12.80	16.1											



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)								Naphthalene (ug/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/11/15 4:45 PM	212.00	4.40	16.30	11.90	0.00	11.90	19.30	16.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:00 PM	195.00	4.70	17.20	11.60	0.00	11.60	20.40	17.20	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:15 PM	197.00	4.40	17.40	11.20	0.00	11.20	20.50	17.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:30 PM	196.00	2.90	19.30	11.10	0.00	11.10	22.70	19.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 5:45 PM	203.00	4.20	20.00	11.30	0.00	11.30	24.60	20.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:00 PM	207.00	3.30	23.00	11.80	0.00	11.80	28.10	23.00	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:15 PM	188.00	3.50	24.10	12.00	0.00	12.00	31.00	24.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:30 PM	192.00	4.50	23.60	12.00	0.00	12.00	31.50	23.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 6:45 PM	185.00	4.60	23.20	10.90	0.00	10.90	31.70	23.20	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:00 PM	187.00	4.40	20.40	9.40	0.00	9.40	28.70	20.40	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:15 PM	205.00	2.80	20.20	9.40	0.00	9.40	28.50	20.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:30 PM	198.00	4.00	19.90	9.80	0.00	9.80	28.20	19.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 7:45 PM	202.00	4.00	20.40	10.60	0.00	10.60	27.70	20.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:00 PM	199.00	3.10	20.10	11.10	0.00	11.10	26.90	20.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:15 PM	205.00	3.80	19.80	12.30	0.00	12.30	26.70	19.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:30 PM	203.00	3.00	19.70	12.50	0.00	12.50	25.30	19.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 8:45 PM	203.00	3.60	19.70	12.60	0.00	12.60	25.10	19.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 9:00 PM	206.00	3.90	20.00	12.30	0.00	12.30	25.70	20.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 9:15 PM	205.00	2.80	20.00	0.00	0.00	0.00	25.40	20.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 9:30 PM	209.00	3.00	19.90	12.30	0.00	12.30	25.40	19.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 9:45 PM	197.00	2.70	20.00	12.40	0.00	12.40	24.60	20.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 10:00 PM	213.00	2.70	21.10	13.10	0.00	13.10	24.50	21.10	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 10:15 PM	206.00	2.40	20.30	13.30	0.00	13.30	23.90	20.30	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 10:30 PM	206.00	2.20	20.00	13.60	0.00	13.60	23.80	20.00	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 10:45 PM	202.00	2.10	19.10	12.90	0.00	12.90	22.70	19.10	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 11:00 PM	199.00	1.30	18.70	12.50	0.00	12.50	23.10	18.70	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 11:15 PM	179.00	1.40	22.60	21.10	0.00	12.70	22.60	19.40	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 11:30 PM	191.00	1.70	19.30	11.70	0.00	11.70	22.30	19.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/11/15 11:45 PM	198.00	1.40	19.50	11.70	0.00	11.70	22.40	19.50	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 12:00 AM	200.00	1.60	19.90	11.80	0.00	11.80	23.10	19.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 12:15 AM	201.00	1.60	20.50	0.00	0.00	0.00	23.80	20.50	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 12:30 AM	204.00	1.30	20.80	12.50	0.00	12.50	25.00	20.80	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 12:45 AM	205.00	1.30	23.30	12.70	0.00	12.70	26.70	23.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 1:00 AM	212.00	1.50	23.00	13.10	0.00	13.10	27.20	23.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 1:15 AM	222.00	1.20	22.60	13.40	0.00	13.40	26.80	22.60	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 1:30 AM	230.00	1.50	22.50	12.50	0.00	12.50	26.70	22.50	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 1:45 AM	251.00	1.10	22.00	0.00	0.00	0.00	26.40	22.00	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 2:00 AM	243.00	1.30	22.70	12.20	0.00	12.20	26.40	22.70	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 2:15 AM	258.00	1.50	22.80	12.50	0.00	12.50	27.40	22.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 2:30 AM	254.00	1.60	22.40	13.10	0.00	13.10	27.10	22.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 2:45 AM	241.00	1.50	22.30	13.10	0.00	13.10	26.80	22.30	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 3:00 AM	268.00	1.50	22.10	13.70	0.00	13.70	26.10	22.10	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 3:15 AM	287.00	1.70	22.30	26.10	3.80	13.50	26.10	22.30	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 3:30 AM	308.00	1.80	22.80	26.60	3.80	13.90	26.60	22.80	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 3:45 AM	321.00	1.80	23.50	26.40	2.90	14.70	26.40	23.50	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 4:00 AM	290.00	1.80	23.90	26.90	3.00	15.20	26.90	23.90	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 4:15 AM	308.00	2.60	27.90	28.80	0.90	15.60	28.80	24.30	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 4:30 AM	318.00	2.80	27.50	28.80	1.30	16.50	28.80	24.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 4:45 AM	321.00	2.80	27.00	28.40	1.40	18.50	28.40	24.30	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 5:00 AM	320.00	2.80	27.40	30.60	3.20	18.70	30.60	24.30	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 5:15 AM	348.00	7.60	23.90	29.80	5.90	18.70	29.80	24.70	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 5:30 AM	353.00	7.70	18.10	18.80	0.70	16.90	18.80	16.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 5:45 AM	353.00	9.40	18.10	19.10	1.00	16.60	19.10	15.90	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 6:00 AM	349.00	6.40	19.20	18.20	0.00	17.70	18.20	16.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 6:15 AM	354.00	8.40	20.30	20.00	0.00	20.30	20.00	18.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 6:30 AM	347.00	8.50	23.00	20.00	0.00	21.40	20.00	18.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 6:45 AM	353.00	8.10	23.00	21.60	0.00	22.70	21.60	19.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 7:00 AM	350.00	7.30	24.60	22.80	0.00	23.30	22.80	20.40	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 7:15 AM	347.00	7.10	26.20	24.30	0.00	26.20	24.30	22.00	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 7:30 AM	352.00	8.30	25.80	23.60	0.00	25.70	23.60	21.60	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 7:45 AM	350.00	7.40	24.10	22.70	0.00	24.90	22.70	20.60	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 8:00 AM	352.00	8.90	23.10	22.20	0.00	25.00	22.20	20.40	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 8:15 AM	354.00	9.60	19.70	19.70	0.00	24.40	19.70	18.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 8:30 AM	350.00	11.00	17.70	17.90	0.20	19.30	17.90	17.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 8:45 AM	356.00	8.40	15.20	16.60	1.40	18.10	16.60	15.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 9:00 AM	347.00	10.90	14.70	17.50	2.80	16.00	17.50	15.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 9:15 AM	352.00	13.10	13.60	15.30	1.70	14.20	15.30	14.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 9:30 AM	352.00	11.60	11.50	13.40	1.90	11.40	13.40	13.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/12/15 9:45 AM	349.00	10.70	12.10	14.10	2.00	10.70	14.10											



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], Naphthalene (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly data from 1/12/15 6:15 PM to 1/13/15 7:15 PM.



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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/14/15 8:45 PM	195.00	4.80	32.60	21.60	0.00	21.60	33.70	32.60	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 9:00 PM	201.00	4.60	32.50	21.60	0.00	21.60	32.90	32.50	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 9:15 PM	199.00	3.80	32.60	21.60	0.00	21.60	32.20	32.60	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 9:30 PM	207.00	3.50	32.40	21.60	0.00	21.60	33.00	32.40	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 9:45 PM	202.00	3.40	33.00	21.60	0.00	21.60	33.10	33.00	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 10:00 PM	205.00	3.90	33.50	21.60	0.00	21.60	33.30	33.50	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 10:15 PM	210.00	3.60	33.40	21.60	0.00	21.60	34.00	33.40	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 10:30 PM	209.00	3.10	35.20	21.60	0.00	21.60	34.60	35.20	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 10:45 PM	207.00	3.40	36.50	21.60	0.00	21.60	35.00	36.50	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 11:00 PM	211.00	4.10	35.20	21.60	0.00	21.60	35.70	35.20	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 11:15 PM	207.00	3.40	33.90	21.60	0.00	21.60	34.50	33.90	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 11:30 PM	209.00	3.50	32.80	21.60	0.00	21.60	33.00	32.80	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/14/15 11:45 PM	209.00	3.10	32.50	21.60	0.00	21.60	32.30	32.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:00 AM	203.00	3.20	31.70	21.60	0.00	21.60	31.10	31.70	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:15 AM	206.00	3.20	30.10	21.60	0.00	21.60	29.50	30.10	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:30 AM	213.00	3.70	28.40	21.60	0.00	21.60	29.30	28.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:45 AM	206.00	3.10	28.80	21.60	0.00	21.60	29.30	28.80	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:00 AM	205.00	4.40	29.00	21.60	0.00	21.60	29.10	29.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:15 AM	198.00	4.40	29.90	21.60	0.00	21.60	28.60	29.90	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:30 AM	212.00	2.40	29.80	21.60	0.00	21.60	29.00	29.80	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:45 AM	202.00	3.50	29.80	21.60	0.00	21.60	29.10	29.80	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 2:00 AM	212.00	3.00	30.20	21.60	0.00	21.60	29.60	30.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 2:15 AM	209.00	3.10	31.80	21.60	0.00	21.60	30.90	31.80	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 2:30 AM	213.00	2.60	31.30	21.60	0.00	21.60	29.30	31.30	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 2:45 AM	209.00	2.70	28.90	21.60	0.00	21.60	27.20	28.90	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 3:00 AM	199.00	2.80	27.50	21.60	0.00	21.60	26.90	27.50	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 3:15 AM	209.00	2.70	27.10	21.60	0.00	21.60	25.70	27.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 3:30 AM	200.00	3.00	26.90	21.60	0.00	21.60	25.90	26.90	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 3:45 AM	209.00	3.10	25.70	21.60	0.00	21.60	25.40	25.70	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 4:00 AM	212.00	3.00	25.60	21.60	0.00	21.60	24.80	25.60	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 4:15 AM	208.00	2.60	25.80	21.60	0.00	21.60	26.20	25.80	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 4:30 AM	198.00	3.00	26.30	21.60	0.00	21.60	26.20	26.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 4:45 AM	192.00	2.70	26.80	21.60	0.00	21.60	26.20	26.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 5:00 AM	192.00	2.50	26.20	21.60	0.00	21.60	25.50	26.20	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 5:15 AM	194.00	3.50	27.20	21.60	0.00	21.60	26.20	27.20	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 5:30 AM	196.00	3.60	25.50	21.60	0.00	21.60	25.50	25.50	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 5:45 AM	196.00	3.10	25.60	21.60	0.00	21.60	25.40	25.60	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 6:00 AM	205.00	4.00	26.50	21.60	0.00	21.60	27.30	26.50	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 6:15 AM	200.00	3.00	26.50	21.60	0.00	21.60	26.50	26.50	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 6:30 AM	202.00	3.60	26.60	21.60	0.00	21.60	26.40	26.60	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 6:45 AM	194.00	3.30	26.90	21.60	0.00	21.60	28.40	26.90	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 7:00 AM	190.00	4.00	27.50	21.60	0.00	21.60	27.80	27.50	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 7:15 AM	183.00	4.20	28.00	21.60	0.00	21.60	28.40	28.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 7:30 AM	196.00	4.10	28.00	21.60	0.00	21.60	29.70	28.00	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 7:45 AM	201.00	4.40	28.10	21.60	0.00	21.60	29.60	28.10	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 8:00 AM	204.00	4.00	28.80	21.60	0.00	21.60	30.20	28.80	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 8:15 AM	209.00	4.80	30.70	21.60	0.00	21.60	30.60	30.70	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 8:30 AM	206.00	4.00	30.40	21.60	0.00	21.60	30.40	30.40	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 8:45 AM	206.00	4.20	30.20	21.60	0.00	21.60	30.60	30.20	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 9:00 AM	205.00	4.30	28.90	21.60	0.00	21.60	29.50	28.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 9:15 AM	211.00	4.00	28.20	21.60	0.00	21.60	29.80	28.20	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 9:30 AM	214.00	2.70	28.60	21.60	0.00	21.60	28.70	28.60	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 9:45 AM	209.00	4.00	29.30	21.60	0.00	21.60	29.10	29.30	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 10:00 AM	210.00	3.80	29.80	21.60	0.00	21.60	30.90	29.80	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 10:15 AM	208.00	4.30	30.50	21.60	0.00	21.60	31.00	30.50	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 10:30 AM	227.00	6.10	30.80	21.60	0.00	21.60	31.20	30.80	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 10:45 AM	227.00	5.40	31.20	21.60	0.00	21.60	31.30	31.20	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 11:00 AM	205.00	4.10	31.20	21.60	0.00	21.60	32.10	31.20	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 11:15 AM	207.00	6.10	31.50	21.60	0.00	21.60	31.50	31.50	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 11:30 AM	232.00	7.40	29.90	21.60	0.00	21.60	30.30	29.90	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 11:45 AM	217.00	6.00	29.50	21.60	0.00	21.60	30.80	29.50	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:00 PM	227.00	7.80	28.30	21.60	0.00	21.60	30.20	28.30	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:15 PM	226.00	7.70	27.60	21.60	0.00	21.60	27.40	27.60	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:30 PM	234.00	6.10	27.20	21.60	0.00	21.60	26.10	27.20	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 12:45 PM	226.00	7.00	26.80	21.60	0.00	21.60	25.60	26.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:00 PM	227.00	8.40	26.80	21.60	0.00	21.60	26.00	26.80	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:15 PM	221.00	6.90	26.50	21.60	0.00	21.60	25.30	26.50	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:30 PM	230.00	7.50	26.10	21.60	0.00	21.60	26.20	26.10	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/15/15 1:45 PM	218.00	6.40	26.60	21.60	0.00													



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/15/15 10:00 PM	224.00	1.40	28.20	21.60	0.00	21.60	32.50	28.20	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 10:15 PM	226.00	1.10	28.70	21.60	0.00	21.60	33.20	28.70	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 10:30 PM	215.00	1.30	29.90	21.60	0.00	21.60	33.20	29.90	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 10:45 PM	229.00	1.40	29.30	21.60	0.00	21.60	32.90	29.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 11:00 PM	234.00	2.30	27.80	21.60	0.00	21.60	30.80	27.80	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 11:15 PM	248.00	4.00	26.20	21.60	0.00	21.60	29.30	26.20	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 11:30 PM	247.00	3.30	26.00	21.60	0.00	21.60	28.80	26.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/15 11:45 PM	257.00	3.40	27.10	21.60	0.00	21.60	28.60	27.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:00 AM	257.00	3.30	25.90	21.60	0.00	21.60	28.10	25.90	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:15 AM	252.00	3.20	25.60	21.60	0.00	21.60	27.60	25.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:30 AM	249.00	2.90	25.30	21.60	0.00	21.60	27.60	25.30	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:45 AM	249.00	3.00	25.10	21.60	0.00	21.60	27.20	25.10	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:00 AM	251.00	3.00	25.10	21.60	0.00	21.60	27.10	25.10	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:15 AM	260.00	3.40	25.20	21.60	0.00	21.60	27.80	25.20	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:30 AM	257.00	3.50	25.10	21.60	0.00	21.60	26.70	25.10	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:45 AM	255.00	3.00	24.50	21.60	0.00	21.60	26.90	24.50	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:00 AM	270.00	2.80	23.60	26.70	3.10	21.60	26.70	24.90	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:15 AM	273.00	3.40	23.90	26.60	2.70	21.60	26.60	25.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:30 AM	268.00	3.70	25.10	21.60	0.00	21.60	26.90	25.10	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:45 AM	266.00	3.50	26.00	21.60	0.00	21.60	27.30	26.00	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 3:00 AM	262.00	3.40	25.10	21.60	0.00	21.60	26.20	25.10	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 3:15 AM	262.00	2.40	25.10	21.60	0.00	21.60	26.60	25.10	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 3:30 AM	240.00	2.80	25.10	21.60	0.00	21.60	26.90	25.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 3:45 AM	247.00	3.20	24.90	21.60	0.00	21.60	26.60	24.90	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 4:00 AM	245.00	3.30	25.60	21.60	0.00	21.60	26.80	25.60	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 4:15 AM	268.00	3.10	25.20	21.60	0.00	21.60	26.60	25.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 4:30 AM	258.00	3.30	25.30	21.60	0.00	21.60	26.50	25.30	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 4:45 AM	255.00	2.50	25.10	21.60	0.00	21.60	26.20	25.10	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 5:00 AM	250.00	2.40	24.80	21.60	0.00	21.60	26.10	24.80	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 5:15 AM	248.00	2.40	24.80	21.60	0.00	21.60	26.50	24.80	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 5:30 AM	241.00	1.70	24.80	21.60	0.00	21.60	26.50	24.80	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 5:45 AM	253.00	2.60	25.00	21.60	0.00	21.60	27.70	25.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 6:00 AM	245.00	2.30	25.60	21.60	0.00	21.60	28.10	25.60	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 6:15 AM	255.00	2.20	25.40	21.60	0.00	21.60	28.00	25.40	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 6:30 AM	251.00	2.40	25.80	21.60	0.00	21.60	27.70	25.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 6:45 AM	258.00	2.10	25.60	21.60	0.00	21.60	27.60	25.60	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 7:00 AM	252.00	2.60	26.40	21.60	0.00	21.60	28.70	26.40	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 7:15 AM	244.00	2.60	25.80	21.60	0.00	21.60	28.20	25.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 7:30 AM	251.00	2.10	25.30	21.60	0.00	21.60	27.20	25.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 7:45 AM	240.00	1.90	25.00	21.60	0.00	21.60	26.50	25.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 8:00 AM	260.00	2.10	24.70	21.60	0.00	21.60	25.50	24.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 8:15 AM	238.00	2.50	24.50	21.60	0.00	21.60	25.20	24.50	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 8:30 AM	239.00	2.70	24.90	21.60	0.00	21.60	26.10	24.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 8:45 AM	253.00	2.90	24.50	21.60	0.00	21.60	25.00	24.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 9:00 AM	241.00	2.60	25.70	21.60	0.00	21.60	25.50	25.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 9:15 AM	237.00	2.10	25.60	21.60	0.00	21.60	25.10	25.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 9:30 AM	230.00	2.40	24.80	21.60	0.00	21.60	24.80	24.80	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 9:45 AM	228.00	2.10	25.10	21.60	0.00	21.60	25.60	25.10	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 10:00 AM	253.00	2.60	25.50	21.60	0.00	21.60	25.00	25.50	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 10:15 AM	263.00	2.70	25.30	21.60	0.00	21.60	27.00	25.30	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 10:30 AM	259.00	2.70	25.40	21.60	0.00	21.60	24.90	25.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 10:45 AM	251.00	2.70	25.80	21.60	0.00	21.60	26.10	25.80	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 11:00 AM	256.00	2.40	26.70	21.60	0.00	21.60	27.00	26.70	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 11:15 AM	258.00	1.80	29.40	21.60	0.00	21.60	28.80	29.40	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 11:30 AM	299.00	0.80	28.40	31.30	2.90	21.60	31.30	29.50	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 11:45 AM	273.00	1.40	28.60	28.50	0.00	21.60	28.50	27.80	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:00 PM	244.00	1.10	26.70	21.60	0.00	21.60	27.90	26.70	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:15 PM	293.00	1.40	29.00	27.70	0.00	21.60	27.70	26.40	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:30 PM	284.00	0.90	28.80	29.00	0.20	21.60	29.00	28.30	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 12:45 PM	49.00	3.00	21.60	26.90	5.30	21.60	21.00	26.90	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:00 PM	38.00	2.20	21.60	21.90	0.30	21.60	24.50	21.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:15 PM	21.00	3.40	21.60	27.40	5.80	21.60	25.30	27.40	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:30 PM	59.00	4.20	21.60	25.80	4.20	21.60	25.80	25.80	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 1:45 PM	55.00	3.20	21.60	22.10	0.50	21.60	22.30	22.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:00 PM	71.00	3.80	21.60	15.10	0.00	21.60	11.60	15.10	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:15 PM	79.00	4.10	21.60	13.30	0.00	21.60	13.20	13.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:30 PM	72.00	4.60	21.60	12.10	0.00	21.60	12.20	12.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 2:45 PM	102.00	3.80	9.50	7.10	0.00	21.60	9.50	10.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/15 3:00 PM	111.00	4.00	13.50	8.60	0.00	21.60	13.50	13								



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates ($\mu\text{g}/\text{m}^3$)								Naphthalene ($\mu\text{g}/\text{m}^3$)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/16/15 11:15 PM	169.00	4.40	44.90	35.10	0.00	21.60	44.90	40.50	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/15 11:30 PM	166.00	4.80	43.00	35.30	0.00	21.60	43.00	39.60	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/16/15 11:45 PM	165.00	4.60	43.20	35.60	0.00	21.60	43.20	39.90	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:00 AM	163.00	4.20	43.90	35.70	0.00	21.60	43.90	40.60	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:15 AM	157.00	4.10	43.80	35.70	0.00	21.60	43.80	40.60	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:30 AM	166.00	4.10	44.80	36.50	0.00	21.60	44.80	39.60	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:45 AM	164.00	3.90	43.90	36.50	0.00	21.60	43.90	39.50	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:00 AM	163.00	4.40	43.80	38.20	0.00	21.60	43.80	40.00	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:15 AM	170.00	5.00	43.50	36.90	0.00	21.60	43.50	40.10	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:30 AM	171.00	5.10	43.20	36.60	0.00	21.60	43.20	40.00	36.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:45 AM	159.00	5.30	43.40	36.10	0.00	21.60	43.40	40.30	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:00 AM	160.00	5.60	43.20	33.90	0.00	21.60	43.20	39.90	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:15 AM	161.00	6.70	41.30	31.20	0.00	21.60	41.30	38.50	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:30 AM	160.00	5.00	40.40	28.70	0.00	21.60	40.40	38.00	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:45 AM	174.00	6.40	38.00	26.10	0.00	21.60	38.00	36.30	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:00 AM	172.00	6.80	36.60	25.40	0.00	21.60	36.60	35.10	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:15 AM	170.00	6.90	35.50	25.30	0.00	21.60	35.50	34.20	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:30 AM	176.00	6.80	33.60	24.60	0.00	21.60	33.60	33.00	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:45 AM	189.00	6.60	30.40	21.60	0.00	21.60	30.00	30.40	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:00 AM	178.00	7.60	27.80	21.60	0.00	21.60	27.80	28.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:15 AM	170.00	6.90	25.10	21.20	0.00	21.60	25.10	27.50	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:30 AM	170.00	6.50	24.20	20.50	0.00	21.60	24.20	25.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:45 AM	182.00	8.40	25.90	21.60	0.00	21.60	24.50	25.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 5:00 AM	178.00	8.10	23.40	19.90	0.00	21.60	23.40	24.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 5:15 AM	183.00	8.20	24.30	21.60	0.00	21.60	22.50	24.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 5:30 AM	176.00	6.70	22.30	20.10	0.00	21.60	22.30	23.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 5:45 AM	195.00	8.40	22.70	21.60	0.00	21.60	21.90	22.70	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 6:00 AM	183.00	6.80	22.60	21.60	0.00	21.60	20.90	22.60	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 6:15 AM	186.00	7.00	21.40	21.60	0.20	21.60	20.10	21.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 6:30 AM	191.00	7.50	20.90	21.60	0.70	21.60	18.70	20.90	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 6:45 AM	192.00	7.20	20.20	21.60	1.40	21.60	18.60	20.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 7:00 AM	185.00	7.10	19.60	21.60	2.00	21.60	17.70	19.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 7:15 AM	186.00	7.70	18.80	21.60	2.80	21.60	17.40	18.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 7:30 AM	192.00	8.10	18.30	21.60	3.30	21.60	16.60	18.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 7:45 AM	185.00	7.00	18.20	21.60	3.40	21.60	16.70	18.20	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 8:00 AM	188.00	7.00	18.10	21.60	3.50	21.60	16.90	18.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 8:15 AM	188.00	8.70	18.50	21.60	3.10	21.60	17.30	18.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 8:30 AM	191.00	7.10	18.60	21.60	3.00	21.60	17.30	18.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 8:45 AM	196.00	6.80	18.80	21.60	2.80	21.60	17.60	18.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 9:00 AM	196.00	7.00	18.80	21.60	2.80	21.60	18.20	18.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 9:15 AM	189.00	7.10	18.60	21.60	3.00	21.60	17.70	18.60	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 9:30 AM	188.00	7.40	18.40	21.60	3.20	21.60	17.40	18.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 9:45 AM	200.00	9.80	18.10	21.60	3.50	21.60	17.40	18.10	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 10:00 AM	194.00	9.60	18.10	21.60	3.50	21.60	17.20	18.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 10:15 AM	192.00	8.70	17.60	21.60	4.00	21.60	17.30	17.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 10:30 AM	195.00	8.00	17.30	21.60	4.30	21.60	16.40	17.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 10:45 AM	203.00	11.10	16.90	21.60	4.70	21.60	16.70	16.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 11:00 AM	202.00	9.10	16.70	21.60	4.90	21.60	16.70	16.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 11:15 AM	209.00	9.10	16.90	21.60	4.70	21.60	16.80	16.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 11:30 AM	199.00	8.70	16.80	21.60	4.80	21.60	16.40	16.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 11:45 AM	194.00	9.30	16.40	21.60	5.20	21.60	16.50	16.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:00 PM	197.00	9.30	16.60	21.60	5.00	21.60	16.10	16.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:15 PM	201.00	9.80	16.70	21.60	4.90	21.60	16.80	16.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:30 PM	197.00	10.80	16.60	21.60	5.00	21.60	16.80	16.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 12:45 PM	200.00	9.10	16.80	21.60	4.80	21.60	17.20	16.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:00 PM	210.00	8.70	17.00	21.60	4.60	21.60	17.00	17.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:15 PM	208.00	8.70	16.80	21.60	4.80	21.60	16.60	16.80	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:30 PM	204.00	9.90	16.40	21.60	5.20	21.60	16.20	16.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 1:45 PM	200.00	9.60	16.50	21.60	5.10	21.60	16.30	16.50	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:00 PM	196.00	10.30	16.20	21.60	5.40	21.60	16.00	16.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:15 PM	198.00	7.70	16.20	21.60	5.40	21.60	15.70	16.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:30 PM	198.00	8.90	16.20	21.60	5.40	21.60	15.60	16.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 2:45 PM	207.00	8.10	16.10	21.60	5.50	21.60	15.40	16.10	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:00 PM	204.00	8.20	16.20	21.60	5.40	21.60	15.30	16.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:15 PM	203.00	7.60	16.60	21.60	5.00	21.60	15.30	16.60	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:30 PM	207.00	7.80	16.20	21.60	5.40	21.60	15.60	16.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 3:45 PM	198.00	9.20	16.40	21.60	5.20	21.60	15.40	16.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:00 PM	209.00	6.20	16.70	21.60	4.90	21.60	15.30	16.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/17/15 4:15 PM	210.00	10.00	17.00															



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/18/15 12:30 AM	226.00	3.80	9.80	21.60	11.80	21.60	6.50	9.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 12:45 AM	207.00	3.30	9.90	21.60	11.70	21.60	6.90	9.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:00 AM	218.00	4.60	9.90	21.60	11.70	21.60	6.60	9.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:15 AM	236.00	4.70	9.60	21.60	12.00	21.60	6.40	9.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:30 AM	235.00	4.10	9.30	21.60	12.30	21.60	6.10	9.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:45 AM	238.00	5.00	9.10	21.60	12.50	21.60	6.20	9.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:00 AM	241.00	7.00	9.10	21.60	12.50	21.60	6.00	9.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:15 AM	255.00	6.70	9.00	21.60	12.60	21.60	6.30	9.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:30 AM	248.00	6.10	8.70	21.60	12.90	21.60	6.10	8.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:45 AM	256.00	4.70	9.50	21.60	12.10	21.60	6.50	9.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:00 AM	250.00	5.50	9.90	21.60	11.70	21.60	7.50	9.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:15 AM	244.00	5.10	9.50	21.60	12.10	21.60	7.40	9.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:30 AM	256.00	4.60	9.10	21.60	12.50	21.60	7.20	9.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:45 AM	268.00	6.10	8.80	21.60	12.80	21.60	7.10	8.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:00 AM	265.00	6.00	8.50	21.60	13.10	21.60	6.50	8.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:15 AM	259.00	4.70	8.70	21.60	12.90	21.60	6.40	8.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:30 AM	258.00	4.70	8.90	21.60	12.70	21.60	6.40	8.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:45 AM	260.00	4.10	8.40	21.60	13.20	21.60	6.30	8.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:00 AM	271.00	5.70	4.30	6.20	1.90	21.60	6.20	8.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:15 AM	266.00	4.70	7.70	21.60	13.90	21.60	6.10	7.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:30 AM	267.00	5.50	7.60	21.60	14.00	21.60	5.90	7.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:45 AM	269.00	4.30	7.70	21.60	13.90	21.60	5.70	7.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 6:00 AM	277.00	5.20	5.50	6.00	0.50	21.60	6.00	7.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 6:15 AM	270.00	5.00	5.30	6.00	0.70	21.60	6.00	7.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 6:30 AM	259.00	4.10	8.40	21.60	13.20	21.60	6.60	8.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 6:45 AM	260.00	5.50	7.90	21.60	13.70	21.60	5.90	7.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 7:00 AM	257.00	5.20	7.70	21.60	13.90	21.60	6.00	7.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 7:15 AM	259.00	4.90	7.70	21.60	13.90	21.60	6.20	7.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 7:30 AM	237.00	5.00	7.50	21.60	14.10	21.60	6.20	7.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 7:45 AM	268.00	3.60	7.50	21.60	14.10	21.60	6.10	7.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 8:00 AM	243.00	5.90	7.80	21.60	13.80	21.60	6.30	7.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 8:15 AM	246.00	5.30	8.10	21.60	13.50	21.60	6.50	8.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 8:30 AM	256.00	5.50	8.30	21.60	13.30	21.60	6.70	8.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 8:45 AM	246.00	5.00	8.30	21.60	13.30	21.60	6.80	8.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 9:00 AM	247.00	5.80	8.10	21.60	13.50	21.60	6.40	8.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 9:15 AM	258.00	6.30	7.80	21.60	13.80	21.60	6.20	7.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 9:30 AM	258.00	6.20	7.20	21.60	14.40	21.60	5.60	7.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 9:45 AM	265.00	5.90	6.80	21.60	14.80	21.60	5.30	6.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 10:00 AM	263.00	4.70	6.70	21.60	14.90	21.60	5.40	6.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 10:15 AM	260.00	3.90	6.50	21.60	15.10	21.60	5.30	6.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 10:30 AM	250.00	5.50	6.60	21.60	15.00	21.60	5.30	6.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 10:45 AM	253.00	4.20	6.50	21.60	15.10	21.60	5.00	6.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 11:00 AM	268.00	5.00	6.00	21.60	15.60	21.60	4.70	6.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 11:15 AM	269.00	6.80	5.70	21.60	15.90	21.60	4.70	5.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 11:30 AM	286.00	6.10	4.10	4.40	0.30	21.60	4.40	5.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 11:45 AM	271.00	5.70	4.40	4.50	0.10	21.60	4.50	5.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 12:00 PM	283.00	4.70	4.40	4.70	0.30	21.60	4.70	5.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 12:15 PM	273.00	5.90	4.50	4.50	0.00	21.60	4.50	5.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 12:30 PM	268.00	5.10	5.20	21.60	16.40	21.60	4.30	5.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 12:45 PM	268.00	5.40	5.20	21.60	16.40	21.60	4.50	5.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:00 PM	294.00	4.40	5.20	4.80	0.00	21.60	4.80	5.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:15 PM	297.00	4.50	5.50	5.20	0.00	21.60	5.20	5.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:30 PM	283.00	4.10	5.60	6.10	0.50	21.60	6.10	6.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 1:45 PM	290.00	4.90	5.40	5.50	0.10	21.60	5.50	6.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:00 PM	280.00	4.50	5.10	5.10	0.00	21.60	5.10	5.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:15 PM	271.00	4.30	5.70	6.00	0.30	21.60	6.00	6.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:30 PM	273.00	5.00	5.40	5.30	0.00	21.60	5.30	5.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 2:45 PM	299.00	4.20	5.50	5.30	0.00	21.60	5.30	5.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:00 PM	297.00	6.00	5.10	4.70	0.00	21.60	4.70	5.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:15 PM	285.00	5.90	5.20	4.60	0.00	21.60	4.60	4.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:30 PM	273.00	4.20	5.20	4.70	0.00	21.60	4.70	5.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 3:45 PM	283.00	4.50	5.10	4.70	0.00	21.60	4.70	4.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:00 PM	259.00	5.40	4.90	21.60	16.70	21.60	4.70	4.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:15 PM	255.00	5.10	5.10	21.60	16.50	21.60	4.90	5.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:30 PM	252.00	5.80	5.30	21.60	16.30	21.60	4.80	5.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 4:45 PM	263.00	4.50	5.40	21.60	16.20	21.60	4.90	5.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:00 PM	257.00	4.80	5.20	21.60	16.40	21.60	5.20	5.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:15 PM	261.00	5.50	5.70	21.60	15.90	21.60	5.60	5.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:30 PM	257.00	4.80	6.10	21.60	15.50	21.60	5.30	6.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/15 5:45 PM	260.00	3.70	6.40	21.60	15.20	21.60	5.50	6.40	5.90	0.00	0.00	0.00	0.00			



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/19/15 1:45 AM	261.00	1.40	15.50	21.60	6.10	21.60	12.90	15.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:00 AM	238.00	1.60	15.60	21.60	6.00	21.60	13.40	15.60	11.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:15 AM	217.00	1.80	15.40	21.60	6.20	21.60	13.20	15.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:30 AM	233.00	1.80	16.40	21.60	5.20	21.60	14.40	16.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:45 AM	225.00	1.70	16.20	21.60	5.40	21.60	14.90	16.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:00 AM	235.00	2.20	16.50	21.60	5.10	21.60	14.80	16.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:15 AM	235.00	1.70	16.20	21.60	5.40	21.60	14.70	16.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:30 AM	239.00	1.70	16.70	21.60	4.90	21.60	15.80	16.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:45 AM	238.00	2.30	17.80	21.60	3.80	21.60	16.00	17.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:00 AM	231.00	2.30	17.10	21.60	4.50	21.60	15.80	17.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:15 AM	249.00	1.10	17.40	21.60	4.20	21.60	16.40	17.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:30 AM	187.00	1.50	17.00	21.60	4.60	21.60	16.20	17.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:45 AM	227.00	1.90	16.20	21.60	5.40	21.60	14.60	16.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:00 AM	242.00	2.90	15.80	21.60	6.00	21.60	14.80	15.60	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:15 AM	250.00	2.40	15.60	21.60	6.00	21.60	14.30	15.60	15.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:30 AM	198.00	0.90	16.60	21.60	5.00	21.60	14.30	16.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:45 AM	231.00	2.70	16.40	21.60	5.20	21.60	14.50	16.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:00 AM	243.00	2.10	16.30	21.60	5.30	21.60	15.10	16.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:15 AM	246.00	2.20	16.70	21.60	4.90	21.60	15.30	16.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:30 AM	251.00	2.40	17.00	21.60	4.60	21.60	16.30	17.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:45 AM	237.00	1.10	17.40	21.60	4.20	21.60	16.20	17.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:00 AM	235.00	1.30	17.00	21.60	4.60	21.60	15.60	17.00	17.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:15 AM	202.00	0.80	17.30	21.60	4.30	21.60	16.50	17.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:30 AM	234.00	0.90	17.30	21.60	4.30	21.60	16.60	17.30	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:45 AM	253.00	1.30	18.20	21.60	3.40	21.60	16.80	18.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 8:00 AM	17.00	1.00	21.60	17.80	0.00	21.60	17.70	17.80	22.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 8:15 AM	331.00	1.00	22.40	17.70	0.00	21.60	17.70	17.90	22.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 8:30 AM	244.00	0.70	17.20	21.60	4.40	21.60	17.60	17.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 8:45 AM	306.00	0.40	17.90	17.60	0.00	21.60	17.60	18.90	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 9:00 AM	189.00	1.20	20.40	21.60	1.20	21.60	18.20	20.40	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 9:15 AM	251.00	1.50	20.90	21.60	0.70	21.60	21.30	20.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 9:30 AM	224.00	1.40	22.00	21.60	0.00	21.60	23.20	22.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 9:45 AM	255.00	1.20	22.30	21.60	0.00	21.60	23.20	22.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 10:00 AM	252.00	1.20	22.30	21.60	0.00	21.60	23.40	22.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 10:15 AM	292.00	0.60	9.00	21.30	12.30	21.60	21.30	23.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 10:30 AM	344.00	1.30	8.80	25.70	16.90	21.60	25.70	24.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 10:45 AM	350.00	1.40	10.50	17.40	6.90	21.60	17.40	18.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 11:00 AM	347.00	1.10	8.40	15.80	7.40	8.90	15.80	17.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 11:15 AM	323.00	0.70	10.60	13.10	2.50	0.00	13.10	16.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 11:30 AM	353.00	0.70	11.00	15.90	4.90	9.80	15.90	16.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 11:45 AM	350.00	0.50	12.90	20.00	7.10	14.20	20.00	20.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 12:00 PM	337.00	0.60	18.70	24.40	5.70	19.30	24.40	23.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 12:15 PM	343.00	1.50	13.70	21.60	7.90	15.70	21.60	24.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 12:30 PM	331.00	0.90	14.00	23.20	9.20	0.00	23.20	23.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 12:45 PM	15.00	1.40	0.00	20.40	0.00	0.00	21.70	20.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 1:00 PM	112.00	1.50	23.40	18.10	0.00	0.00	23.40	22.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 1:15 PM	112.00	1.60	16.90	18.60	1.70	15.70	16.90	21.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 1:30 PM	27.00	2.00	15.40	21.90	6.50	15.40	21.00	21.90	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 1:45 PM	356.00	2.90	10.40	20.00	9.60	0.00	20.00	20.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:00 PM	30.00	3.60	14.30	20.80	6.50	14.30	18.60	20.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:15 PM	30.00	4.20	13.30	20.40	7.10	13.30	24.60	20.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:30 PM	28.00	5.70	12.30	19.10	6.80	12.30	21.20	19.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 2:45 PM	49.00	3.80	13.30	17.80	4.50	13.30	23.20	17.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:00 PM	43.00	4.00	13.40	21.20	7.80	13.40	25.50	21.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:15 PM	50.00	3.70	12.10	27.90	15.80	12.10	26.00	27.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:30 PM	41.00	2.80	0.00	24.90	0.00	0.00	23.90	24.90	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 3:45 PM	49.00	2.80	15.50	23.80	8.30	15.50	28.60	23.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:00 PM	38.00	2.60	13.40	23.70	10.30	13.40	24.80	23.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:15 PM	45.00	3.10	0.00	22.10	0.00	0.00	21.70	22.10	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:30 PM	56.00	4.40	13.10	20.00	6.90	13.10	26.80	20.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 4:45 PM	66.00	3.10	0.00	21.20	0.00	0.00	25.30	21.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:00 PM	66.00	3.70	15.00	20.80	5.80	15.00	19.80	20.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:15 PM	59.00	4.20	14.70	20.10	5.40	14.70	16.40	20.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:30 PM	55.00	4.30	46.30	23.20	0.00	46.30	20.90	23.20	23.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 5:45 PM	48.00	4.70	14.30	24.10	9.80	14.30	23.60	24.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:00 PM	53.00	3.60	0.00	18.40	0.00	0.00	16.80	18.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:15 PM	60.00	5.50	17.40	17.80	0.40	17.40	15.00	17.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:30 PM	112.00	3.00	16.90	11.40	0.00	9.10	16.90	18.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 6:45 PM	89.00	2.40	0.00	22.90	0.00	0.00	16.90	22.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:00 PM	120.00	3.40	12.30	7.60	0.00	8.20	12.30	14.30	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:15 PM	104.00	2.70	11.90	8.00	0.00	7.80	11.90	14.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:30 PM	115.00	4.10	13.90	7.00	0.00	7.00	13.90	13.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/19/15 7:45 PM	90.00	3.20	17.50	6.90	0.00	6.80										



**US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)								Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/20/15 3:00 AM	185.00	1.70	26.10	15.80	0.00	15.80	27.60	26.10	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:15 AM	189.00	2.10	26.50	14.70	0.00	14.70	27.00	26.50	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:30 AM	180.00	2.20	27.00	15.00	0.00	15.00	27.90	27.00	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:45 AM	172.00	2.20	27.90	19.90	0.00	15.20	27.90	26.10	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:00 AM	189.00	2.10	26.30	15.50	0.00	15.50	25.90	26.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:15 AM	156.00	2.40	26.70	19.60	0.00	14.80	26.70	27.70	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:30 AM	162.00	2.90	25.60	18.80	0.00	14.90	25.60	25.50	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:45 AM	171.00	2.10	26.00	18.80	0.00	15.30	26.00	25.20	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:00 AM	192.00	2.00	24.70	14.90	0.00	14.90	24.90	24.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:15 AM	173.00	1.80	25.30	20.40	0.00	14.10	25.30	27.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:30 AM	186.00	2.10	29.80	14.10	0.00	14.10	26.20	29.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:45 AM	166.00	2.20	28.80	20.80	0.00	14.70	28.80	27.50	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:00 AM	169.00	2.60	30.50	20.40	0.00	14.70	30.50	28.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:15 AM	181.00	1.80	28.60	14.40	0.00	14.40	28.30	28.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:30 AM	178.00	1.20	28.10	20.80	0.00	14.20	28.10	30.70	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:45 AM	187.00	2.00	28.30	14.40	0.00	14.40	28.90	28.30	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:00 AM	176.00	1.80	28.90	20.80	0.00	13.70	28.90	28.10	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:15 AM	169.00	1.80	29.40	21.50	0.00	14.40	29.40	28.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:30 AM	196.00	1.90	27.50	14.40	0.00	14.40	29.40	27.50	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:45 AM	169.00	2.90	30.10	23.40	0.00	14.20	30.10	29.20	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 8:00 AM	170.00	2.40	30.90	23.40	0.00	15.00	30.90	29.10	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 8:15 AM	167.00	2.10	30.40	22.40	0.00	14.10	30.40	29.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 8:30 AM	185.00	2.00	29.20	14.40	0.00	14.40	29.40	29.20	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 8:45 AM	186.00	2.50	28.70	14.10	0.00	14.10	30.20	28.70	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 9:00 AM	182.00	2.40	28.00	13.80	0.00	13.80	28.70	28.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 9:15 AM	219.00	1.20	26.10	13.50	0.00	13.50	26.90	26.10	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 9:30 AM	190.00	2.10	25.20	12.10	0.00	12.10	26.10	25.20	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 9:45 AM	195.00	2.30	25.00	11.70	0.00	11.70	25.30	25.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 10:00 AM	193.00	2.50	24.90	12.20	0.00	12.20	25.80	24.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 10:15 AM	205.00	2.40	25.30	12.10	0.00	12.10	24.50	25.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 10:30 AM	255.00	1.60	23.10	11.20	0.00	11.20	22.20	23.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 10:45 AM	251.00	2.00	19.60	10.40	0.00	10.40	19.30	19.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 11:00 AM	274.00	1.10	13.80	19.00	5.20	10.00	19.00	18.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 11:15 AM	272.00	1.60	13.90	19.80	5.90	10.70	19.80	18.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 11:30 AM	267.00	2.20	18.60	11.40	0.00	11.40	20.90	18.60	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 11:45 AM	278.00	2.40	16.10	22.10	6.00	11.50	22.10	19.60	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 12:00 PM	327.00	1.20	17.00	22.30	5.30	11.60	22.30	20.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 12:15 PM	321.00	2.10	21.20	29.30	8.10	12.70	29.30	23.90	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 12:30 PM	330.00	2.70	22.80	30.20	7.40	15.70	30.20	25.90	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 12:45 PM	343.00	3.00	24.60	31.20	6.60	15.40	31.20	26.00	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 1:00 PM	352.00	4.10	27.10	33.10	6.00	16.10	33.10	28.40	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 1:15 PM	349.00	4.90	28.50	35.00	6.50	18.20	35.00	30.30	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 1:30 PM	345.00	4.30	27.30	33.70	6.40	15.50	33.70	29.70	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 1:45 PM	346.00	4.80	27.10	30.80	3.70	14.90	30.80	29.70	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 2:00 PM	350.00	3.30	24.60	28.40	3.80	13.60	28.40	27.90	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 2:15 PM	348.00	2.60	25.00	28.90	3.90	13.30	28.90	28.10	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 2:30 PM	2.00	2.60	14.30	30.20	15.90	14.30	29.40	30.20	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 2:45 PM	352.00	2.50	25.70	31.80	6.10	15.40	31.80	31.20	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:00 PM	21.00	1.60	14.50	31.10	16.60	14.50	35.30	31.10	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:15 PM	338.00	0.90	23.30	32.40	9.10	14.90	32.40	30.30	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:30 PM	276.00	0.60	23.30	31.40	8.10	14.90	31.40	30.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 3:45 PM	319.00	1.50	23.50	30.90	7.40	15.20	30.90	30.50	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:00 PM	327.00	2.20	24.90	33.00	8.10	15.70	33.00	31.30	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:15 PM	323.00	2.40	26.30	35.20	8.90	16.40	35.20	33.50	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:30 PM	356.00	3.90	26.40	36.00	9.60	16.60	36.00	33.30	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 4:45 PM	348.00	4.90	26.70	35.10	8.40	16.60	35.10	33.30	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:00 PM	343.00	3.70	26.20	36.20	10.00	17.00	36.20	35.00	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:15 PM	344.00	3.40	23.70	36.70	13.00	16.20	36.70	35.60	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:30 PM	336.00	3.30	23.90	35.90	12.00	16.40	35.90	35.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 5:45 PM	347.00	2.70	24.10	37.00	12.90	16.60	37.00	36.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:00 PM	348.00	3.80	24.80	35.80	11.00	17.10	35.80	37.90	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:15 PM	5.00	3.60	17.50	38.60	21.10	17.50	39.70	38.60	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:30 PM	31.00	5.40	18.00	41.90	23.90	18.00	42.60	41.90	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 6:45 PM	29.00	6.10	20.30	44.70	24.40	20.30	43.00	44.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:00 PM	33.00	5.90	19.50	38.50	19.00	19.50	40.20	38.50	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:15 PM	21.00	4.70	17.40	36.40	19.00	17.40	34.60	36.40	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:30 PM	31.00	6.60	0.00	33.80	0.00	0.00	31.80	33.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 7:45 PM	25.00	6.60	14.10	30.60	16.50	14.10	28.70	30.60	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/20/15 8:00 PM	29.00	5.20	14.00	29.90	15.90	14.00	2											



US Army Corps of Engineers

Indiana Harbor and Canal Confined Disposal Facility Real-Time Air Monitoring Data January 2015

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (ug/m^3) (Upwind, Downwind, CDF Contribution, M1, M2, M3, M4), and Naphthalene (ug/m^3) (Upwind, Downwind, CDF Contribution, M1, M2, M3, M4). Rows represent hourly data from 1/21/15 4:15 AM to 1/22/15 5:15 AM.



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)							Naphthalene (ug/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/22/15 5:30 AM	281.00	2.30	11.40	12.60	1.20	10.30	12.60	11.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 5:45 AM	278.00	1.60	11.30	13.50	2.20	9.00	13.50	12.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:00 AM	283.00	1.70	11.00	14.00	3.00	9.30	14.00	12.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:15 AM	301.00	2.10	12.50	14.00	1.50	0.00	14.00	13.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:30 AM	258.00	2.00	13.30	10.60	0.00	10.60	14.50	13.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:45 AM	272.00	2.20	10.70	13.10	2.40	10.10	13.10	12.40	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:00 AM	258.00	2.30	12.00	10.50	0.00	10.50	12.30	12.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:15 AM	267.00	2.60	12.10	10.40	0.00	10.40	12.50	12.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:30 AM	260.00	2.30	12.60	10.40	0.00	10.40	13.10	12.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:45 AM	268.00	1.70	12.60	10.80	0.00	10.80	13.70	12.60	11.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:00 AM	307.00	1.30	12.10	13.60	1.50	10.90	13.60	12.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:15 AM	317.00	1.70	12.00	14.50	2.50	10.90	14.50	13.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:30 AM	290.00	2.00	12.30	14.70	2.40	11.90	14.70	14.40	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:45 AM	283.00	1.90	12.70	14.70	2.00	12.40	14.70	14.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:00 AM	306.00	1.90	13.20	15.60	2.40	13.40	15.60	14.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:15 AM	300.00	2.00	13.90	17.50	3.60	14.10	17.50	16.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:30 AM	300.00	2.10	16.10	18.90	2.80	14.30	18.90	17.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:45 AM	264.00	1.60	18.20	14.10	0.00	14.10	19.40	18.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:00 AM	250.00	1.30	18.50	0.00	0.00	0.00	19.80	18.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:15 AM	272.00	1.50	18.30	20.80	2.50	14.50	20.80	19.50	18.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:30 AM	328.00	1.60	17.60	21.70	4.10	14.20	21.70	19.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:45 AM	321.00	2.10	18.00	22.30	4.30	14.80	22.30	19.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:00 AM	315.00	2.20	17.10	20.50	3.40	14.80	20.50	19.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:15 AM	315.00	2.50	14.50	19.30	4.80	14.40	19.30	16.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:30 AM	334.00	2.40	10.70	10.30	0.00	8.60	10.30	11.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:45 AM	324.00	2.90	10.30	11.80	1.50	9.30	11.80	13.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 12:00 PM	333.00	2.90	10.60	12.60	2.00	9.70	12.60	12.90	10.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 12:15 PM	304.00	3.50	9.90	11.80	1.90	9.90	11.80	12.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 12:30 PM	317.00	2.90	10.70	12.50	1.80	11.10	12.50	12.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 12:45 PM	265.00	1.20	13.00	10.90	0.00	10.90	12.00	13.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 1:00 PM	308.00	2.80	11.30	13.60	2.30	10.40	13.60	13.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 1:15 PM	310.00	2.90	11.10	13.30	2.20	9.60	13.30	13.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 1:30 PM	250.00	3.00	13.10	8.90	0.00	8.90	12.60	13.10	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 1:45 PM	320.00	3.30	11.00	12.80	1.80	8.40	12.80	13.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 2:00 PM	277.00	3.10	11.10	12.50	1.40	8.40	12.50	13.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 2:15 PM	317.00	2.80	11.00	13.10	2.10	8.90	13.10	13.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 2:30 PM	300.00	2.80	11.20	13.50	2.30	9.50	13.50	13.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 2:45 PM	283.00	3.10	11.00	13.30	2.30	9.50	13.30	13.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 3:00 PM	305.00	2.90	12.00	13.50	1.50	10.20	13.50	14.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 3:15 PM	268.00	1.50	14.90	10.60	0.00	10.60	14.50	14.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 3:30 PM	302.00	2.00	13.30	16.20	2.90	0.00	16.20	15.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 3:45 PM	283.00	2.90	13.80	16.70	2.90	11.40	16.70	16.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 4:00 PM	286.00	2.70	14.20	16.80	2.60	11.10	16.80	15.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 4:15 PM	271.00	2.00	14.00	17.10	3.10	10.80	17.10	16.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 4:30 PM	285.00	2.10	14.30	17.40	3.10	10.90	17.40	16.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 4:45 PM	259.00	2.00	15.80	11.50	0.00	11.50	16.50	15.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 5:00 PM	259.00	1.30	16.40	11.00	0.00	11.00	16.00	16.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 5:15 PM	258.00	2.50	16.00	11.90	0.00	11.90	16.50	16.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 5:30 PM	256.00	2.40	16.10	12.30	0.00	12.30	16.00	16.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 5:45 PM	264.00	2.50	16.50	13.20	0.00	13.20	18.30	16.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:00 PM	276.00	1.50	14.80	16.90	2.10	12.40	16.90	16.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:15 PM	251.00	1.80	18.20	13.70	0.00	13.70	17.50	18.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:30 PM	232.00	2.40	19.10	13.60	0.00	13.60	17.80	19.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 6:45 PM	237.00	2.90	20.60	12.90	0.00	12.90	17.80	20.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:00 PM	248.00	2.00	20.80	12.30	0.00	12.30	17.90	20.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:15 PM	260.00	2.50	20.20	11.10	0.00	11.10	18.60	20.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:30 PM	268.00	1.90	21.00	11.30	0.00	11.30	19.20	21.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 7:45 PM	266.00	2.40	22.90	0.00	0.00	0.00	20.30	22.90	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:00 PM	249.00	2.30	21.60	13.30	0.00	13.30	19.70	21.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:15 PM	214.00	3.40	21.90	14.30	0.00	14.30	20.00	21.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:30 PM	224.00	3.30	21.60	15.00	0.00	15.00	19.50	21.60	16.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 8:45 PM	231.00	4.10	20.20	13.70	0.00	13.70	19.10	20.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:00 PM	225.00	3.30	20.70	12.80	0.00	12.80	18.20	20.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:15 PM	225.00	4.00	20.00	13.70	0.00	13.70	19.10	20.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:30 PM	220.00	4.00	19.80	12.60	0.00	12.60	18.00	19.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 9:45 PM	261.00	2.70	19.90	13.80	0.00	13.80	17.50	19.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:00 PM	260.00	3.40	19.90	13.80	0.00	13.80	17.80	19.90	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:15 PM	239.00	3.10	20.50	14.60	0.00	14.60	19.80	20.50	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:30 PM	238.00	4.20	20.90	14.50	0.00	14.50	19.80	20.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 10:45 PM	250.00	5.60	22.30	14.70	0.00	14.70	21.70	22.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:00 PM	247.00	5.50	20.00	14.90	0.00	14.90	18.70	20.00	17.60	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:15 PM	253.00	3.80	19.80	12.50	0.00	12.50	18.90	19.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/22/15 11:30 PM	243.00	4.50	19													



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates ($\mu\text{g}/\text{m}^3$)								Naphthalene ($\mu\text{g}/\text{m}^3$)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/23/15 6:45 AM	227.00	5.00	12.90	0.00	0.00	0.00	11.50	12.90	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:00 AM	239.00	4.90	12.20	5.80	0.00	5.80	10.60	12.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:15 AM	240.00	5.20	12.00	0.00	0.00	0.00	10.20	12.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:30 AM	239.00	5.00	11.60	6.20	0.00	6.20	10.70	11.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:45 AM	218.00	5.10	12.00	6.70	0.00	6.70	11.00	12.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:00 AM	239.00	5.20	12.50	7.30	0.00	7.30	11.20	12.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:15 AM	244.00	5.80	13.50	8.00	0.00	8.00	12.00	13.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:30 AM	233.00	4.90	13.30	7.10	0.00	7.10	11.90	13.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:45 AM	221.00	4.60	13.30	6.70	0.00	6.70	11.90	13.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:00 AM	225.00	5.80	14.10	0.00	0.00	0.00	12.80	14.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:15 AM	217.00	4.90	15.20	7.00	0.00	7.00	14.50	15.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:30 AM	229.00	4.70	15.80	8.30	0.00	8.30	15.50	15.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:45 AM	210.00	5.00	15.30	8.30	0.00	8.30	14.70	15.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:00 AM	226.00	5.90	14.70	8.40	0.00	8.40	14.00	14.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:15 AM	228.00	5.90	14.00	8.40	0.00	8.40	13.70	14.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:30 AM	204.00	5.10	13.90	0.00	0.00	0.00	13.30	13.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:45 AM	228.00	7.30	14.10	8.10	0.00	8.10	13.60	14.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:00 AM	218.00	5.50	12.90	7.60	0.00	7.60	12.40	12.90	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:15 AM	229.00	4.90	13.00	7.60	0.00	7.60	13.00	13.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:30 AM	234.00	3.80	14.30	0.00	0.00	0.00	14.20	14.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:45 AM	243.00	4.70	14.50	9.10	0.00	9.10	13.50	14.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 12:00 PM	216.00	7.10	15.10	10.50	0.00	10.50	15.00	15.10	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 12:15 PM	236.00	3.80	14.80	11.30	0.00	11.30	15.00	14.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 12:30 PM	245.00	5.70	14.50	11.00	0.00	11.00	15.10	14.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 12:45 PM	230.00	5.90	14.60	11.00	0.00	11.00	14.90	14.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 1:00 PM	217.00	5.00	14.50	10.80	0.00	10.80	14.00	14.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 1:15 PM	245.00	5.40	15.30	10.50	0.00	10.50	14.20	15.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 1:30 PM	231.00	4.40	15.00	10.40	0.00	10.40	14.60	15.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 1:45 PM	220.00	4.30	15.80	10.90	0.00	10.90	16.10	15.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 2:00 PM	217.00	5.40	15.80	11.00	0.00	11.00	15.70	15.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 2:15 PM	209.00	4.70	14.90	11.00	0.00	11.00	15.20	14.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 2:30 PM	227.00	6.30	14.40	11.40	0.00	11.40	14.50	14.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 2:45 PM	212.00	5.50	14.50	11.40	0.00	11.40	14.50	14.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 3:00 PM	231.00	5.10	14.20	11.90	0.00	11.90	14.10	14.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 3:15 PM	235.00	6.10	14.20	11.90	0.00	11.90	14.90	14.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 3:30 PM	216.00	5.60	14.10	11.90	0.00	11.90	14.40	14.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 3:45 PM	226.00	5.00	14.90	12.50	0.00	12.50	14.70	14.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 4:00 PM	234.00	4.50	13.20	0.00	0.00	0.00	13.30	13.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 4:15 PM	243.00	5.70	11.90	9.40	0.00	9.40	11.90	11.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 4:30 PM	223.00	4.80	12.20	9.30	0.00	9.30	11.60	12.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 4:45 PM	216.00	4.70	12.80	10.50	0.00	10.50	12.80	12.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 5:00 PM	231.00	3.90	14.00	11.50	0.00	11.50	13.80	14.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 5:15 PM	229.00	4.30	13.60	12.10	0.00	12.10	13.80	13.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 5:30 PM	214.00	5.00	13.70	12.40	0.00	12.40	14.10	13.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 5:45 PM	200.00	3.70	14.50	13.30	0.00	13.30	15.50	14.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 6:00 PM	213.00	2.90	15.50	13.50	0.00	13.50	15.90	15.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 6:15 PM	204.00	2.90	15.80	12.70	0.00	12.70	18.50	15.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 6:30 PM	227.00	3.40	17.30	13.10	0.00	13.10	19.20	17.30	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 6:45 PM	219.00	2.90	17.60	0.00	0.00	0.00	19.80	17.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:00 PM	211.00	3.50	18.40	12.90	0.00	12.90	21.80	18.40	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:15 PM	218.00	2.70	18.20	12.80	0.00	12.80	20.20	18.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:30 PM	209.00	4.70	17.50	13.50	0.00	13.50	18.90	17.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 7:45 PM	210.00	3.60	15.60	12.60	0.00	12.60	16.80	15.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:00 PM	200.00	3.60	15.40	12.80	0.00	12.80	16.90	15.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:15 PM	203.00	4.00	15.40	15.00	0.00	15.00	20.10	15.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:30 PM	201.00	3.60	18.00	14.70	0.00	14.70	19.50	18.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 8:45 PM	205.00	3.10	16.50	12.40	0.00	12.40	15.30	16.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:00 PM	199.00	3.00	15.00	11.20	0.00	11.20	15.00	15.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:15 PM	196.00	4.00	15.70	10.80	0.00	10.80	16.90	15.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:30 PM	195.00	3.80	15.30	10.50	0.00	10.50	14.30	15.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 9:45 PM	200.00	4.00	14.30	10.10	0.00	10.10	13.80	14.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:00 PM	209.00	4.30	14.30	10.40	0.00	10.40	14.00	14.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:15 PM	213.00	4.40	14.30	10.40	0.00	10.40	14.10	14.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:30 PM	206.00	3.90	14.30	10.60	0.00	10.60	16.50	14.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 10:45 PM	205.00	4.00	14.60	10.60	0.00	10.60	14.90	14.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:00 PM	203.00	2.80	14.50	10.20	0.00	10.20	14.80	14.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:15 PM	206.00	3.30	14.10	9.90	0.00	9.90	15.00	14.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:30 PM	223.00	4.20	13.70	9.50	0.00	9.50	14.00	13.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1/23/15 11:45 PM	207.00	4.90	14.30	10.10	0.00	10.10	14.60	14.30	11.20	0.00								



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/24/15 8:00 AM	267.00	3.30	17.00	9.60	0.00	9.60	17.10	17.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:15 AM	263.00	3.30	16.90	10.30	0.00	10.30	17.10	16.90	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:30 AM	270.00	3.40	14.90	17.00	2.10	10.80	17.00	17.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:45 AM	260.00	3.10	17.20	11.10	0.00	11.10	16.80	17.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:00 AM	274.00	3.30	15.10	16.80	1.70	10.80	16.80	16.80	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:15 AM	275.00	2.90	14.80	17.40	2.60	10.60	17.40	17.30	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:30 AM	273.00	3.90	14.00	16.70	2.70	10.10	16.70	16.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:45 AM	273.00	4.30	13.50	15.60	2.10	9.60	15.60	15.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:00 AM	282.00	2.60	12.90	14.70	1.80	7.90	14.70	14.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:15 AM	282.00	3.40	12.30	13.60	1.30	7.70	13.60	13.80	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:30 AM	282.00	5.00	11.40	13.20	1.80	7.20	13.20	13.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:45 AM	281.00	2.60	10.60	12.40	1.80	6.60	12.40	13.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:00 AM	268.00	4.50	11.40	6.60	0.00	6.60	10.80	11.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:15 AM	279.00	3.60	8.90	8.80	0.00	5.20	8.80	9.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:30 AM	274.00	2.60	7.10	8.00	0.90	4.90	8.00	8.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:45 AM	268.00	2.40	9.00	5.40	0.00	5.40	8.20	9.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 12:00 PM	252.00	4.50	8.70	4.90	0.00	4.90	7.50	8.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 12:15 PM	270.00	4.70	6.70	8.00	1.30	5.30	8.00	8.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 12:30 PM	265.00	4.30	8.20	4.50	0.00	4.50	6.90	8.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 12:45 PM	248.00	5.70	8.60	4.70	0.00	4.70	7.40	8.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 1:00 PM	234.00	5.20	8.70	4.60	0.00	4.60	7.70	8.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 1:15 PM	248.00	5.00	9.60	5.00	0.00	5.00	8.50	9.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 1:30 PM	261.00	6.30	8.80	4.90	0.00	4.90	7.70	8.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 1:45 PM	252.00	5.20	8.80	4.70	0.00	4.70	7.70	8.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 2:00 PM	263.00	4.70	8.90	5.00	0.00	5.00	7.80	8.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 2:15 PM	247.00	5.80	8.90	4.60	0.00	4.60	8.00	8.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 2:30 PM	257.00	4.90	9.10	0.00	0.00	0.00	8.30	9.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 2:45 PM	260.00	7.20	8.90	4.70	0.00	4.70	8.20	8.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 3:00 PM	250.00	6.30	8.30	4.60	0.00	4.60	7.10	8.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 3:15 PM	281.00	5.80	5.50	5.90	0.40	4.10	5.90	7.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 3:30 PM	243.00	5.50	8.40	4.00	0.00	4.00	6.80	8.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 3:45 PM	252.00	4.50	8.20	4.30	0.00	4.30	6.80	8.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 4:00 PM	257.00	5.70	7.20	4.10	0.00	4.10	6.30	7.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 4:15 PM	252.00	5.30	7.20	4.20	0.00	4.20	6.60	7.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 4:30 PM	261.00	5.50	8.10	4.40	0.00	4.40	7.40	8.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 4:45 PM	251.00	4.50	9.40	5.10	0.00	5.10	8.90	9.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 5:00 PM	255.00	5.00	10.30	5.20	0.00	5.20	9.70	10.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 5:15 PM	261.00	3.20	11.60	5.40	0.00	5.40	11.50	11.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 5:30 PM	256.00	3.10	12.30	5.70	0.00	5.70	12.20	12.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 5:45 PM	263.00	5.80	13.00	6.10	0.00	6.10	13.10	13.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 6:00 PM	258.00	3.20	13.60	6.50	0.00	6.50	14.10	13.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 6:15 PM	263.00	4.90	13.80	6.80	0.00	6.80	15.00	13.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 6:30 PM	266.00	4.00	13.10	6.80	0.00	6.80	12.60	13.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 6:45 PM	282.00	4.20	6.80	11.90	5.10	6.00	11.90	12.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 7:00 PM	270.00	2.90	6.80	12.30	5.50	0.00	12.30	13.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 7:15 PM	282.00	2.10	7.80	13.50	5.70	6.50	13.50	14.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 7:30 PM	238.00	1.50	15.10	7.00	0.00	7.00	14.40	15.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 7:45 PM	246.00	2.20	17.30	7.50	0.00	7.50	16.30	17.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:00 PM	212.00	1.10	17.30	7.90	0.00	7.90	18.50	17.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:15 PM	0.00	0.00	0.00	0.00	0.00	9.50	20.80	23.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:30 PM	0.00	0.00	0.00	0.00	0.00	9.10	18.90	20.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 8:45 PM	0.00	0.00	0.00	0.00	0.00	9.00	18.90	19.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:00 PM	0.00	0.00	0.00	0.00	0.00	9.40	18.70	18.90	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:15 PM	0.00	0.00	0.00	0.00	0.00	9.50	20.20	19.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:30 PM	256.00	0.90	19.80	10.00	0.00	10.00	20.40	19.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 9:45 PM	300.00	0.80	14.10	19.50	5.40	10.90	19.50	20.80	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:00 PM	342.00	0.80	13.50	21.40	7.90	11.60	21.40	22.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:15 PM	354.00	2.10	14.10	21.80	7.70	11.70	21.80	22.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:30 PM	0.00	1.60	11.30	23.00	11.70	11.30	22.80	23.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 10:45 PM	359.00	1.70	15.90	23.20	7.30	12.50	23.20	23.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:00 PM	14.00	0.60	13.70	23.80	10.10	13.70	25.90	23.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:15 PM	9.00	1.20	12.60	23.30	10.70	12.60	27.90	23.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:30 PM	86.00	0.40	12.30	22.80	10.50	12.30	22.90	22.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/15 11:45 PM	56.00	0.80	14.80	22.30	7.50	14.80	25.80	22.30	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:00 AM	286.00	0.90	14.00	21.30	7.30	11.70	21.30	22.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:15 AM	185.00	0.40	22.20	12.40	0.00	12.40	21.40	22.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:30 AM	125.00	1.10	23.70	13.20	0.00	14.40	23.70	20.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:45 AM	318.00	0.80	13.40	23.30	9.90	14.30	23.30	23.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:00 AM	184.00	1.60	24.10	14.90	0.00	14.90	20.80	24.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:15 AM	63.00	1.70	13.70	23.30	9.60	13.70	19.90	23.30	14.70							



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/25/15 9:15 AM	47.00	9.70	22.10	36.90	14.80	22.10	39.80	36.90	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:30 AM	55.00	9.70	21.00	32.20	11.20	21.00	34.10	32.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:45 AM	42.00	8.00	21.00	33.00	12.00	21.00	34.20	33.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:00 AM	49.00	6.00	21.00	32.90	11.90	21.00	32.80	32.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:15 AM	35.00	10.90	18.30	30.70	12.40	18.30	30.30	30.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:30 AM	39.00	8.80	8.60	20.40	11.80	8.60	36.70	20.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:45 AM	44.00	9.90	7.40	24.50	17.10	7.40	31.80	24.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:00 AM	44.00	8.50	6.80	20.30	13.50	6.80	23.60	20.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:15 AM	42.00	7.60	6.10	19.10	13.00	6.10	20.50	19.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:30 AM	40.00	9.50	5.80	14.70	8.90	5.80	19.10	14.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:45 AM	46.00	8.00	5.10	13.70	8.60	5.10	17.20	13.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:00 PM	46.00	8.50	4.80	16.60	11.80	4.80	17.50	16.60	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:15 PM	41.00	8.30	4.80	10.50	5.70	4.80	16.90	10.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:30 PM	36.00	12.00	4.80	9.60	4.80	4.80	9.80	9.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 12:45 PM	34.00	10.10	4.80	9.30	4.50	4.80	10.70	9.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:00 PM	33.00	9.60	6.00	9.20	3.20	6.00	11.10	9.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:15 PM	41.00	10.10	5.70	9.20	3.50	5.70	7.70	9.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:30 PM	39.00	10.20	5.00	8.30	3.30	5.00	9.20	8.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 1:45 PM	31.00	8.50	4.40	7.60	3.20	4.40	8.00	7.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 2:00 PM	31.00	11.20	4.60	7.10	2.50	4.60	6.00	7.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 2:15 PM	43.00	8.50	5.40	7.50	2.10	5.40	6.60	7.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 2:30 PM	39.00	9.70	5.50	7.20	1.70	5.50	7.30	7.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 2:45 PM	36.00	8.40	4.70	6.90	2.20	4.70	9.50	6.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 3:00 PM	40.00	10.70	4.50	6.90	2.40	4.50	8.90	6.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 3:15 PM	42.00	12.00	4.80	7.30	2.50	4.80	5.60	7.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 3:30 PM	31.00	9.40	5.00	6.70	1.70	5.00	6.40	6.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 3:45 PM	28.00	10.90	4.70	6.90	2.20	4.70	6.30	6.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 4:00 PM	24.00	12.90	4.50	6.50	2.00	4.50	5.20	6.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 4:15 PM	28.00	10.30	4.50	8.20	3.70	4.50	6.90	8.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 4:30 PM	30.00	10.00	4.60	7.60	3.00	4.60	6.30	7.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 4:45 PM	35.00	9.70	5.10	6.30	1.20	5.10	5.60	6.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 5:00 PM	31.00	11.60	5.80	6.00	0.20	5.80	5.20	6.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 5:15 PM	28.00	10.50	0.00	6.50	0.00	0.00	6.00	6.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 5:30 PM	23.00	11.30	6.20	6.80	0.60	6.20	6.60	6.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 5:45 PM	36.00	9.80	6.60	6.10	0.00	6.60	6.40	6.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 6:00 PM	30.00	7.70	6.40	6.60	0.20	6.40	6.90	6.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 6:15 PM	33.00	7.70	6.50	6.20	0.00	6.50	6.60	6.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 6:30 PM	29.00	10.30	6.50	5.80	0.00	6.50	5.80	5.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 6:45 PM	24.00	8.70	6.60	6.40	0.00	6.60	5.60	6.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 7:00 PM	29.00	9.90	7.30	6.00	0.00	7.30	5.40	6.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 7:15 PM	37.00	10.10	7.20	6.00	0.00	7.20	5.60	6.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 7:30 PM	34.00	9.50	8.10	6.40	0.00	8.10	5.90	6.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 7:45 PM	26.00	9.20	7.20	6.40	0.00	7.20	5.40	6.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 8:00 PM	20.00	10.50	7.10	5.70	0.00	7.10	5.20	5.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 8:15 PM	22.00	9.30	7.80	5.40	0.00	7.80	9.60	5.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 8:30 PM	30.00	8.30	6.60	5.70	0.00	6.60	5.80	5.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 8:45 PM	53.00	7.40	7.10	5.50	0.00	7.10	4.80	5.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:00 PM	38.00	8.00	6.50	5.60	0.00	6.50	5.80	5.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:15 PM	30.00	8.90	6.70	5.70	0.00	6.70	5.30	5.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:30 PM	31.00	9.30	7.20	6.30	0.00	7.20	5.60	6.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 9:45 PM	39.00	7.40	6.60	5.70	0.00	6.60	4.90	5.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:00 PM	36.00	9.20	6.20	5.60	0.00	6.20	4.70	5.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:15 PM	39.00	7.50	6.30	6.90	0.60	6.30	4.70	6.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:30 PM	28.00	7.50	5.90	5.40	0.00	5.90	4.80	5.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 10:45 PM	38.00	8.50	5.20	6.00	0.80	5.20	8.90	6.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:00 PM	37.00	6.50	5.30	5.80	0.50	5.30	4.80	5.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:15 PM	37.00	6.90	5.40	5.40	0.00	5.40	4.90	5.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:30 PM	33.00	8.10	5.40	5.40	0.00	5.40	4.70	5.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/15 11:45 PM	36.00	7.70	6.10	5.70	0.00	6.10	4.70	5.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:00 AM	36.00	5.80	6.30	5.30	0.00	6.30	4.60	5.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:15 AM	35.00	6.50	6.70	5.40	0.00	6.70	4.80	5.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:30 AM	26.00	6.50	7.20	5.70	0.00	7.20	5.00	5.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:45 AM	21.00	5.70	6.90	5.80	0.00	6.90	4.80	5.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:00 AM	54.00	7.30	7.00	5.60	0.00	7.00	5.00	5.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:15 AM	37.00	6.20	7.50	5.70	0.00	7.50	4.70	5.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:30 AM	52.00	5.70	6.40	6.70	0.30	6.40	4.50	6.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:45 AM	45.00	4.80	6.30	5.80	0.00	6.30	4.90	5.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:00 AM	43.00	6.10	6.00	6.40	0.40	6.00	6.10	6.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:15 AM	32.00	5.50	5.70	6.00	0.30	5.70	4.90	6.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:30 AM	17.00	6.10	6.40	6.00	0.00	6.40	5.30	6.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:45 AM	29.00	5.80	6.20	6.30	0.10	6.20	6.00	6.30	6.60	0.00	0.					



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/26/15 10:30 AM	233.00	3.40	8.40	8.80	0.40	8.80	7.90	8.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 10:45 AM	187.00	3.10	8.30	9.20	0.90	9.20	8.20	8.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:00 AM	196.00	3.50	8.40	9.60	1.20	9.60	8.10	8.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:15 AM	197.00	3.00	8.60	9.60	1.00	9.60	8.00	8.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:30 AM	160.00	2.80	9.30	6.10	0.00	10.50	9.30	9.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:45 AM	201.00	2.20	10.40	10.60	0.20	10.60	11.10	10.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:00 PM	164.00	2.60	9.80	7.40	0.00	10.40	9.80	10.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:15 PM	171.00	2.80	10.80	8.10	0.00	11.50	10.80	11.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:30 PM	204.00	3.00	11.70	10.70	0.00	10.70	11.40	11.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 12:45 PM	191.00	2.20	11.70	0.00	0.00	0.00	11.70	11.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:00 PM	201.00	3.70	11.50	13.10	1.60	13.10	11.20	11.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:15 PM	201.00	2.40	11.30	13.00	1.70	13.00	11.00	11.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:30 PM	180.00	2.40	11.90	13.30	1.40	13.30	12.10	11.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 1:45 PM	180.00	3.30	12.40	13.20	0.80	13.20	12.50	12.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:00 PM	227.00	3.10	12.40	13.00	0.60	13.00	13.00	12.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:15 PM	246.00	2.60	13.10	12.20	0.00	12.20	13.90	13.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:30 PM	253.00	4.20	12.30	12.20	0.00	12.20	14.30	12.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 2:45 PM	252.00	3.10	12.00	12.20	0.20	12.20	12.60	12.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 3:00 PM	224.00	2.00	11.70	12.20	0.50	12.20	12.50	11.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 3:15 PM	245.00	1.60	11.30	12.20	0.90	12.20	11.70	11.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 3:30 PM	243.00	1.80	11.60	11.50	0.00	11.50	12.00	11.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 3:45 PM	231.00	3.40	12.50	12.60	0.10	12.60	14.20	12.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 4:00 PM	195.00	2.40	13.10	12.20	0.00	12.20	15.70	13.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 4:15 PM	169.00	2.50	14.70	13.30	0.00	12.50	14.70	13.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 4:30 PM	165.00	4.10	16.00	14.00	0.00	11.90	16.00	13.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 4:45 PM	167.00	3.50	14.80	13.40	0.00	10.30	14.80	13.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 5:00 PM	158.00	3.00	14.50	13.30	0.00	9.00	14.50	13.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 5:15 PM	145.00	2.10	12.40	11.70	0.00	7.90	12.40	12.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 5:30 PM	191.00	3.10	0.00	8.30	0.00	8.30	14.90	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 5:45 PM	174.00	3.80	16.00	14.10	0.00	9.20	16.00	13.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 6:00 PM	173.00	2.70	15.30	13.50	0.00	9.80	15.30	13.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 6:15 PM	185.00	2.70	14.30	11.00	0.00	11.00	16.40	14.30	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 6:30 PM	179.00	2.80	17.30	14.90	0.00	11.40	17.30	14.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 6:45 PM	204.00	2.80	16.60	12.70	0.00	12.70	19.70	16.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 7:00 PM	197.00	2.20	17.00	13.30	0.00	13.30	20.80	17.00	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 7:15 PM	218.00	3.60	14.60	10.90	0.00	10.90	15.60	14.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 7:30 PM	202.00	2.90	16.10	10.70	0.00	10.70	18.20	16.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 7:45 PM	198.00	2.80	17.00	10.40	0.00	10.40	19.90	17.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 8:00 PM	196.00	3.30	16.00	10.20	0.00	10.20	18.70	16.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 8:15 PM	195.00	2.80	16.60	8.20	0.00	8.20	18.70	16.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 8:30 PM	184.00	2.70	17.30	9.20	0.00	9.20	20.90	17.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 8:45 PM	169.00	3.10	24.40	15.10	0.00	10.30	24.40	19.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 9:00 PM	148.00	3.00	25.40	13.30	0.00	11.20	25.40	20.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 9:15 PM	159.00	2.20	26.90	13.70	0.00	11.30	26.90	21.30	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 9:30 PM	158.00	2.70	27.10	13.50	0.00	12.60	27.10	20.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 9:45 PM	141.00	2.50	25.20	13.80	0.00	14.10	25.20	20.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 10:00 PM	176.00	2.00	27.40	13.90	0.00	15.10	27.40	20.60	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 10:15 PM	163.00	1.30	27.50	14.90	0.00	16.00	27.50	20.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 10:30 PM	147.00	1.80	27.70	15.70	0.00	16.70	27.70	21.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 10:45 PM	155.00	2.60	25.70	15.20	0.00	13.80	25.70	20.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:00 PM	146.00	2.50	26.50	15.70	0.00	14.90	26.50	20.80	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:15 PM	138.00	2.40	28.40	16.90	0.00	14.80	28.40	23.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:30 PM	128.00	2.90	28.80	19.20	0.00	14.30	28.80	24.20	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/15 11:45 PM	144.00	2.50	28.50	19.50	0.00	14.60	28.50	24.30	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 12:00 AM	133.00	2.60	29.00	19.80	0.00	15.40	29.00	24.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 12:15 AM	141.00	2.30	29.20	21.50	0.00	16.10	29.20	23.70	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 12:30 AM	127.00	2.30	28.40	22.10	0.00	17.20	28.40	24.20	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 12:45 AM	133.00	2.10	28.10	22.30	0.00	20.50	28.10	23.80	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 1:00 AM	143.00	3.40	26.40	21.70	0.00	18.00	26.40	23.10	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 1:15 AM	151.00	2.10	24.60	20.00	0.00	18.40	24.60	22.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 1:30 AM	135.00	2.80	24.50	19.50	0.00	16.90	24.50	21.10	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 1:45 AM	141.00	2.90	20.80	17.20	0.00	15.90	20.80	18.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 2:00 AM	146.00	2.10	21.10	17.80	0.00	16.40	21.10	18.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 2:15 AM	141.00	1.50	21.30	18.80	0.00	16.10	21.30	18.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 2:30 AM	112.00	2.10	21.00	18.90	0.00	0.00	21.00	19.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 2:45 AM	133.00	1.80	20.70	19.10	0.00	14.80	20.70	18.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 3:00 AM	148.00	2.50	20.20	18.70	0.00	14.10	20.20	18.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 3:15 AM	159.00	1.70	21.00	18.70	0.00	13.50	21.00	18.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/15 3:30 AM	145.00	2.00	21.00	20.40	0.00	16.50	21.00	19.30	20.40	0.						



Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (ug/m ³)							Naphthalene (ug/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/28/15 1:00 PM	173.00	7.60	25.20	15.50	0.00	36.80	25.20	20.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 1:15 PM	177.00	4.30	23.90	17.00	0.00	36.80	23.90	21.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 1:30 PM	184.00	6.20	23.40	25.80	2.40	25.80	29.80	23.40	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 1:45 PM	168.00	4.20	27.20	19.10	0.00	25.80	27.20	23.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 2:00 PM	168.00	7.10	41.50	20.40	0.00	25.80	41.50	24.20	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 2:15 PM	170.00	7.30	29.90	21.20	0.00	25.80	29.90	25.00	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 2:30 PM	182.00	7.70	23.90	25.80	1.90	25.80	29.00	23.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 2:45 PM	186.00	6.70	23.30	23.80	0.50	23.80	27.70	23.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 3:00 PM	169.00	5.70	29.20	21.00	0.00	23.80	29.20	23.60	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 3:15 PM	163.00	5.10	34.50	22.40	0.00	23.80	34.50	25.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 3:30 PM	160.00	6.20	33.50	23.20	0.00	23.80	33.50	26.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 3:45 PM	158.00	4.70	35.40	25.30	0.00	23.80	35.40	27.20	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 4:00 PM	158.00	5.30	36.20	25.90	0.00	30.10	36.20	28.00	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 4:15 PM	150.00	5.20	41.30	30.90	0.00	30.10	41.30	30.60	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 4:30 PM	159.00	5.00	41.50	30.30	0.00	30.10	41.50	31.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 4:45 PM	157.00	7.10	42.50	30.20	0.00	30.10	42.50	32.70	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 5:00 PM	166.00	7.90	41.40	29.90	0.00	30.10	41.40	30.30	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 5:15 PM	152.00	6.30	40.80	29.30	0.00	30.10	40.80	30.10	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 5:30 PM	157.00	7.50	42.80	32.20	0.00	30.10	42.80	32.70	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 5:45 PM	156.00	6.50	43.00	31.70	0.00	30.10	43.00	33.20	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 6:00 PM	141.00	5.70	43.10	32.70	0.00	30.10	43.10	33.60	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 6:15 PM	144.00	6.30	44.20	33.10	0.00	30.10	44.20	35.30	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 6:30 PM	148.00	6.40	46.60	34.00	0.00	32.50	46.60	37.00	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 6:45 PM	150.00	7.50	46.90	33.70	0.00	32.50	46.90	39.00	33.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 7:00 PM	158.00	7.70	48.80	31.20	0.00	32.50	48.80	36.90	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 7:15 PM	149.00	6.20	44.90	29.70	0.00	32.50	44.90	36.40	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 7:30 PM	150.00	7.80	42.50	28.50	0.00	32.50	42.50	33.80	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 7:45 PM	166.00	6.80	38.60	26.90	0.00	32.50	38.60	32.20	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 8:00 PM	161.00	7.10	37.40	25.30	0.00	32.50	37.40	30.50	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 8:15 PM	156.00	8.90	34.80	23.80	0.00	32.50	34.80	29.30	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 8:30 PM	160.00	6.60	31.40	21.40	0.00	27.70	31.40	27.60	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 8:45 PM	163.00	5.40	28.40	20.40	0.00	25.50	28.40	25.80	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 9:00 PM	155.00	9.50	23.30	16.80	0.00	25.50	23.30	22.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 9:15 PM	166.00	8.50	22.10	15.00	0.00	25.50	22.10	20.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 9:30 PM	171.00	7.50	20.40	14.30	0.00	25.50	20.40	19.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 9:45 PM	170.00	6.80	19.80	13.40	0.00	25.50	19.80	18.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 10:00 PM	169.00	6.50	18.60	12.80	0.00	25.50	18.60	18.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 10:15 PM	183.00	5.50	18.10	25.50	7.40	25.50	17.70	18.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 10:30 PM	177.00	6.50	17.70	12.80	0.00	25.50	17.70	18.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 10:45 PM	167.00	6.70	17.40	12.80	0.00	25.50	17.40	18.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 11:00 PM	175.00	6.10	17.40	13.10	0.00	25.50	17.40	18.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 11:15 PM	167.00	6.30	16.30	12.20	0.00	25.50	16.30	17.40	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 11:30 PM	170.00	7.90	16.20	11.80	0.00	25.50	16.20	16.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/15 11:45 PM	172.00	6.20	15.50	11.40	0.00	25.50	15.50	16.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 12:00 AM	162.00	7.70	16.20	11.60	0.00	25.50	16.20	17.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 12:15 AM	173.00	7.20	15.30	11.10	0.00	11.90	15.30	16.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 12:30 AM	171.00	5.60	14.40	10.90	0.00	11.90	14.40	16.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 12:45 AM	170.00	6.30	14.30	10.90	0.00	11.90	14.30	16.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 1:00 AM	169.00	5.90	13.50	10.70	0.00	11.90	13.50	15.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 1:15 AM	177.00	6.40	13.40	10.40	0.00	11.90	13.40	15.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 1:30 AM	172.00	6.80	13.40	10.40	0.00	11.90	13.40	15.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 1:45 AM	168.00	5.20	13.00	10.50	0.00	11.80	13.00	15.40	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 2:00 AM	174.00	6.80	13.20	10.30	0.00	11.80	13.20	15.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 2:15 AM	167.00	5.90	13.10	10.30	0.00	0.00	13.10	15.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 2:30 AM	172.00	5.60	13.30	10.40	0.00	0.00	13.30	15.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 2:45 AM	177.00	4.10	13.50	10.80	0.00	10.40	13.50	15.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 3:00 AM	172.00	5.70	13.60	11.00	0.00	10.40	13.60	15.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 3:15 AM	178.00	7.10	13.70	11.30	0.00	10.40	13.70	15.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 3:30 AM	173.00	7.40	13.60	11.00	0.00	10.40	13.60	15.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 3:45 AM	173.00	5.90	13.00	10.90	0.00	10.40	13.00	14.80	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 4:00 AM	180.00	4.80	14.40	9.50	0.00	9.50	12.90	14.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 4:15 AM	175.00	4.60	13.20	11.00	0.00	0.00	13.20	16.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 4:30 AM	180.00	4.20	15.40	10.50	0.00	10.50	13.60	15.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 4:45 AM	180.00	4.50	15.50	10.80	0.00	10.80	14.20	15.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 5:00 AM	191.00	4.10	15.80	10.80	0.00	10.80	14.70	15.80	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 5:15 AM	181.00	4.20	16.30	10.80	0.00	10.80	14.60	16.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 5:30 AM	191.00	3.80	16.00	10.80	0.00	10.80	15.70	16.00	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 5:45 AM	178.00	3.40	15.70	12.10	0.00	10.80	15.70	16.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/15 6:00 AM	179.00	2.90	16.50	11.70	0.00	10.80	16.50</									



US Army Corps
of Engineers®

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
1/29/15 2:15 PM	340.00	6.20	26.30	30.30	4.00	24.60	30.30	26.40	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 2:30 PM	320.00	6.00	27.40	29.80	2.40	24.60	29.80	25.90	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 2:45 PM	320.00	6.40	25.60	28.40	2.80	24.60	28.40	26.50	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 3:00 PM	335.00	5.70	25.50	28.50	3.00	24.60	28.50	26.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 3:15 PM	328.00	7.20	24.90	27.10	2.20	24.60	27.10	25.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 3:30 PM	325.00	7.60	23.10	26.30	3.20	16.70	26.30	25.10	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 3:45 PM	330.00	7.70	23.00	26.10	3.10	15.90	26.10	24.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 4:00 PM	331.00	6.20	22.70	25.80	3.10	15.90	25.80	24.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 4:15 PM	324.00	4.70	22.60	25.30	2.70	15.90	25.30	24.50	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 4:30 PM	326.00	5.20	22.00	24.40	2.40	15.90	24.40	23.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 4:45 PM	321.00	3.80	21.30	23.20	1.90	15.90	23.20	22.60	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 5:00 PM	321.00	4.40	19.50	22.70	3.20	15.90	22.70	22.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 5:15 PM	327.00	5.60	18.10	19.90	1.80	15.90	19.90	19.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 5:30 PM	330.00	6.20	15.80	18.80	3.00	11.40	18.80	17.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 5:45 PM	329.00	6.70	13.60	16.70	3.10	10.80	16.70	16.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 6:00 PM	324.00	5.50	13.80	14.90	1.10	10.80	14.90	15.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 6:15 PM	329.00	4.20	13.60	16.10	2.50	10.80	16.10	15.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 6:30 PM	323.00	5.20	12.70	15.70	3.00	9.60	15.70	15.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 6:45 PM	345.00	7.40	8.50	11.20	2.70	9.60	11.20	11.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 7:00 PM	331.00	7.20	8.50	10.70	2.20	9.60	10.70	11.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 7:15 PM	319.00	10.30	7.40	9.90	2.50	9.60	9.90	10.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 7:30 PM	346.00	8.40	5.40	6.70	1.30	9.60	6.70	8.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 7:45 PM	322.00	5.80	5.30	6.50	1.20	9.60	6.50	8.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 8:00 PM	328.00	6.80	4.50	5.70	1.20	9.60	5.70	7.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 8:15 PM	342.00	7.50	4.20	5.20	1.00	5.50	5.20	7.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 8:30 PM	341.00	5.90	4.20	5.10	0.90	5.50	5.10	6.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 8:45 PM	327.00	5.00	4.50	5.30	0.80	5.50	5.30	7.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 9:00 PM	324.00	7.30	4.50	5.30	0.80	5.50	5.30	7.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 9:15 PM	328.00	8.30	3.50	4.80	1.30	4.90	4.80	6.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 9:30 PM	348.00	8.30	3.70	4.80	1.10	4.90	4.80	6.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 9:45 PM	337.00	4.80	3.40	4.20	0.80	0.00	4.20	6.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 10:00 PM	327.00	4.10	4.20	5.40	1.20	0.00	5.40	6.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 10:15 PM	331.00	6.10	4.10	5.10	1.00	0.00	5.10	6.60	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 10:30 PM	324.00	5.30	3.80	4.90	1.10	0.00	4.90	6.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 10:45 PM	325.00	6.80	5.00	7.40	2.40	5.50	7.40	7.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 11:00 PM	333.00	6.00	3.90	5.00	1.10	5.50	5.00	6.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 11:15 PM	334.00	6.20	3.90	5.00	1.10	5.50	5.00	6.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 11:30 PM	329.00	8.40	3.70	5.00	1.30	0.00	5.00	6.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/29/15 11:45 PM	347.00	7.90	3.80	4.70	0.90	0.00	4.70	6.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 12:00 AM	358.00	13.40	3.40	4.50	2.10	0.00	5.50	6.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 12:15 AM	356.00	13.00	3.70	6.30	2.60	5.50	6.30	7.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 12:30 AM	355.00	12.90	3.50	6.50	3.00	5.50	6.50	6.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 12:45 AM	357.00	11.80	3.70	6.40	2.70	5.50	6.40	6.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 1:00 AM	357.00	10.00	3.90	13.70	9.80	5.50	13.70	9.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 1:15 AM	353.00	11.70	4.20	10.60	6.40	5.50	10.60	8.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 1:30 AM	358.00	13.40	4.00	12.50	8.50	5.50	12.50	8.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 1:45 AM	353.00	11.40	3.60	14.80	11.20	3.00	14.80	7.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 2:00 AM	354.00	13.40	3.60	14.80	11.20	0.00	14.80	6.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 2:15 AM	351.00	12.20	3.50	20.90	17.40	2.60	20.90	6.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 2:30 AM	353.00	12.30	2.90	9.60	6.70	2.60	9.60	6.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 2:45 AM	356.00	13.70	2.90	8.40	5.50	3.20	8.40	6.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 3:00 AM	357.00	12.90	2.80	7.90	5.10	3.60	7.90	6.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 3:15 AM	356.00	11.00	2.90	7.90	5.00	4.20	7.90	6.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 3:30 AM	351.00	12.30	2.70	7.70	5.00	4.10	7.70	5.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 3:45 AM	351.00	11.20	2.30	7.10	4.80	4.00	7.10	5.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 4:00 AM	353.00	10.70	2.30	6.70	4.40	4.30	6.70	5.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 4:15 AM	354.00	9.20	2.30	6.90	4.60	4.40	6.90	5.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 4:30 AM	352.00	12.30	2.30	7.00	4.70	5.00	7.00	5.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 4:45 AM	356.00	12.90	2.30	6.70	4.40	4.90	6.70	5.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 5:00 AM	349.00	8.70	2.10	6.90	4.80	4.60	6.90	5.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 5:15 AM	339.00	6.60	2.40	6.80	4.40	4.70	6.80	5.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 5:30 AM	341.00	5.20	2.20	7.20	5.00	4.90	7.20	5.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 5:45 AM	339.00	5.30	2.10	7.50	5.40	5.20	7.50	6.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 6:00 AM	334.00	3.90	2.40	7.80	5.40	5.20	7.80	6.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 6:15 AM	329.00	5.00	2.30	8.00	5.70	5.80	8.00	6.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 6:30 AM	331.00	4.80	2.10	7.60	5.50	5.00	7.60	6.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1/30/15 6:45 AM	315.00	3.90	2.50	7.50	5.00	5.20												



**US Army Corps
of Engineers®**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
January 2015

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
1/31/15 6:00 PM	279.00	1.70	19.40	25.70	6.30	14.60	25.70	22.50	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 6:15 PM	250.00	1.70	22.50	15.20	0.00	15.20	25.50	22.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 6:30 PM	240.00	1.80	21.10	0.00	0.00	0.00	24.70	21.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 6:45 PM	238.00	2.10	21.50	15.30	0.00	15.30	24.10	21.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 7:00 PM	223.00	2.20	21.20	14.70	0.00	14.70	24.00	21.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 7:15 PM	222.00	2.00	21.80	14.50	0.00	14.50	24.70	21.80	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 7:30 PM	224.00	1.80	22.80	14.50	0.00	14.50	25.80	22.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 7:45 PM	217.00	2.10	23.00	14.80	0.00	14.80	26.40	23.00	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 8:00 PM	234.00	2.70	25.40	0.00	0.00	0.00	28.20	25.40	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 8:15 PM	205.00	2.20	25.70	0.00	0.00	0.00	29.00	25.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 8:30 PM	201.00	2.10	27.00	16.30	0.00	16.30	30.20	27.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 8:45 PM	213.00	1.50	27.70	0.00	0.00	0.00	31.10	27.70	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 9:00 PM	225.00	1.70	30.80	17.10	0.00	17.10	33.00	30.80	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 9:15 PM	203.00	0.90	31.00	16.30	0.00	16.30	34.00	31.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 9:30 PM	0.00	0.00	0.00	0.00	0.00	16.70	33.70	30.80	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 9:45 PM	180.00	1.40	29.60	16.70	0.00	16.70	32.80	29.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 10:00 PM	192.00	1.20	29.60	16.70	0.00	16.70	33.00	29.60	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 10:15 PM	191.00	1.30	29.50	16.30	0.00	16.30	32.50	29.50	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 10:30 PM	196.00	1.40	30.30	16.60	0.00	16.60	33.60	30.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 10:45 PM	206.00	1.10	30.60	16.90	0.00	16.90	34.00	30.60	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 11:00 PM	208.00	1.20	30.50	16.50	0.00	16.50	32.70	30.50	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 11:15 PM	34.00	0.30	16.70	29.20	12.50	16.70	31.50	29.20	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 11:30 PM	354.00	0.90	21.90	29.70	7.80	17.70	29.70	29.20	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/15 11:45 PM	285.00	1.80	21.60	29.70	8.10	17.70	29.70	29.20	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 1/9/2015 Email sent to site Technician? (Yes or No)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or No)

2. Alarm caused by:

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: weather, cold and windy, snowing |

3. Corrective Actions taken? (Yes or No)

4. Dredging suspended? (Yes or No)

5. Alarm logged in air monitoring action spreadsheet? (Yes or No)

Description of Action Taken:

A) No problems were found, winter storm causing white-out condition from the snow blowing on top of the dike.

IHC CDF Dredge Project : Air Monitoring Alarm Response Log

Air Monitoring Station: M1 M2 M3 M4 Dock

Air Monitoring Instrument:

Cerex Unit (Naphthalene) Thermo Unit (Particles) PID Monitor

Date & Time of alarm: 1/8/2015 _____ Email sent to site Technician? ((Yes) or No)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm? (Yes or (No)

2. Alarm caused by:

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: weather, cold and windy, snowing |

3. Corrective Actions taken? (Yes or (No)

4. Dredging suspended? (Yes or (No)

5. Alarm logged in air monitoring action spreadsheet? ((Yes) or No)

Description of Action Taken:

A) No problems were found, winter storm causing white-out condition from the snow blowing on top of the dike.